

Industry Contribution for OmniAir WG Review / Recommendation for Standards / Specification, Testing, and Certification

Contribution Type: [Standard Change]

Specification Affected: [IEEE Std 1609.2-2025 Section 6.4.32]

Description Affected: [Matching ASN.1, SubjectPermissions - SSP]

Applicable OmniAir WG: [CyberSecurity]

WG Review: [Initial 2025-08-04]

WG Recommendation: [Posted on website until Standards Consideration]

Certification Test Spec Effect: [Incorporate into 1609.2]

Formatted for Public Posting: [Roebuck]

Document Identifier: [1609.2:2025 Note 1]

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IEEE Std 1609.2-2025 Guidance Note 1: SubjectPermissions Specification Error

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2026-04-24 d2 Original / 2026-8-13 OmniAir Formatted

Introduction

This Guidance Note provides guidance as to how OmniAir will interpret the subject standard (IEEE 1609.2-2025) with respect to material in that standard that is unclear or appears to be internally inconsistent.

The publication of this Guidance Note is not a commitment on the part of OmniAir to develop a test that will test the interpretation given in this Guidance Note. However, if such a test is developed, it will be consistent with the material given in this Guidance Note.

This Guidance Note applies to the indicated dated version of the subject standard. If a future version of the standard contains the same unclarity or inconsistency, a separate Guidance Note will be issued to apply to that standard. OmniAir members who will participate in the development of revisions of the subject standard may choose to draw attention to the unclarity or inconsistency identified in this Guidance Note, and to propose contributions to the revised standard to make it clear and consistent with the material given in this Guidance Note 1.

Technical Content

In 1609.2-2025, the provided ASN.1 file gives the following definitions for PsidGroupPermissions and SubjectPermissions:

```
PsidGroupPermissions ::= SEQUENCE {  
    subjectPermissions SubjectPermissions,  
    minChainLength     INTEGER DEFAULT 1,  
    chainLengthRange   INTEGER DEFAULT 0,  
    eeType             EndEntityType DEFAULT {app}  
}
```

```
SubjectPermissions ::= CHOICE {  
    explicit SequenceOfPsidSspRange,  
    all      NULL,  
    ...  
}
```

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However, in the body of the document (sections 6.4.31 & 6.4.32), the types are defined as follows:

```
PsidGroupPermissions ::= SEQUENCE {  
    subjectPermissions SubjectPermissions,  
    minChainLength      INTEGER DEFAULT 1,  
    chainLengthRange    INTEGER DEFAULT 0,  
    eeType               EndEntityType DEFAULT {app}  
}
```

```
SubjectPermissions ::= CHOICE {  
    explicit SequenceOfPsidGroupPermissions,  
    all      NULL,  
    ...  
}
```

This is an inconsistency between the ASN.1 files and the text in the standard. 1609.2-2025 states that in this case, the ASN.1 in the files takes priority.

Proposed Change

Therefore, a correct implementation uses the definition in section 6.4.32:

```
SubjectPermissions ::= CHOICE {  
    explicit SequenceOfPsidSspRange,  
    all      NULL,  
    ...  
}
```

The purpose of this Guidance Note is to record that for OmniAir purposes, the version of SubjectPermissions that uses SequenceOfPsidSspRange is the one that will be considered correct. Implementers should use this version, as defined in the ASN.1 files, and not the version defined in the text of the standard itself.

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Change History

2026-04-22 d1: Draft

2026-04-24 d2: Added descriptive title

2026-08-05 d3: OmniAir Formatted and Highlighted Change Request

2026-08-13 d4: Added Cover Page and applicable standard sections callout.

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