DEFECT REPORT FORM

1.   Defect Report Number: **250**

      Title: Miscellaneous errors in ITU-T Rec. X.501 | ISO/IEC 9594-2, edition 4

2.   Source: CEN/ISSS/WS-DIR

3.   Addressed to: ISO/IEC JTC1/SC6 and ITU-T SG 7

      Editor Group on the Directory

4.   (a) WG Secretariat: UK (BSI)
      (b) ITU-T WP: WP 4

5.   Date Circulated by WG Secretariat:

6.   Deadline for Response from Editor:

7.   Defect Report Concerning: ITU-T Rec. X.525 (1997) | ISO/IEC 9594-9 : 1998

8.   Qualifier: (e.g.: error, omission, clarification required)

Errors

9.   References in Document: (e.g.: page, clause/section, figure, and/or table numbers)

All over the place

10.   Nature of Defect: (complete, concise explanation of the perceived problem)

In 7.1.s, the second occurrence the word "root" should be replaced by "ancestor"

The **MATCHING-RULE** in 13.5.2 should only use object references instead of type references.

In 13.6.2 in the **MAPPING-BASED-MATCHING** information object class, the reference to a matching rule should not be by object identifier, but should be by information object reference, as the latter is used in ITU-T Rec. X.520 | ISO/IEC 9594-6.

In 13.6.2 right after the **MAPPING-BASED-MATCHING** information object class, items a), b), d) an h) should use more precise ASN.1 terms (derived information object class is not a recognised term).

In 14.8, the **SearchRuleDescription** includes an **obsolete** component. This component has only meaning for schema definitions, not for search-rules.

The second to the last sentence of 16.5 should be re-worded.

In 16.10, in the **SearchRule** data type, the **inputAttributeTypes** component may be present, but empty.

In 16.10, in the **OutputValues** data type has a constrain **{ @attributeType }.**that refers to an identifier not present in this

In 16.10, in the **SearchRule** data type,the **inputAttributeTypes** component may be present, but empty.

In 16.10, in the **MRSubstitution** data type has information object references. This is not legal. As it is a sequence-type transferred in the protocol, it requires something more concrete than a label type specification.

In 16.2.4, there should be a pointer to the general discussion on return of entry information.

The final note of 16.2.4 is a little complicated and should be reworded.

16.10.7, the explanation to the **MRSubstitution** element, item c) should be re-worded.

11.   Solution Proposed by the Source: (optional)

In 7.1.s, in the second sentence, replace the second occurrence of "root" *with* "ancestor"

In 13.5.2, replace:

```
MATCHING-RULE ::= CLASS {
        &ParentMatchingRules            MATCHING-RULE.&id   OPTIONAL,
        &AssertionType                                      OPTIONAL,
        &uniqueMatchIndicator           ATTRIBUTE.&id       OPTIONAL,
        &id                             OBJECT IDENTIFIER UNIQUE }
WITH SYNTAX     {..
```

with:

```
MATCHING-RULE ::= CLASS {
        &ParentMatchingRules            MATCHING-RULE       OPTIONAL,
        &AssertionType                                      OPTIONAL,
        &uniqueMatchIndicator           ATTRIBUTE     OPTIONAL,
        &id                             OBJECT IDENTIFIER UNIQUE }
WITH SYNTAX     {…
```

*In 13.6.2 in the **MAPPING-BASED-MATCHING** information object class replace:*

```
&matching-rule              MATCHING-RULE.&id   (matchingRule),
```

with:

```
&matching-rule              MATCHING-RULE       (matchingRule),
```

*In 13.6.2 after the **MAPPING-BASED-MATCHING** information object class replace item a), b), d) and h) with:*

a)   The **&selectBy** field is a dummy reference for a specification of how an instance of a specialization of the information object class is selected for a mapping-based mapping. The specialized information object class shall, if applicable, specify an ASN.1 type determining together with a textual description on how the selection is to be performed. This component shall be ignored if the user in the **search** request supplies a non-empty **mapping** component of the **RelaxationPolicy** construct.

   NOTE 10 – In principle, several instances possibly of different derived information object classes can be selected by the same **search** request.

b)   The **&ApplicableTo** field specifies what filter items shall be considered mappable filter items by specifying the attribute types for such filter items. Any filter item for an attribute type listed by this subcomponent is subject to mapping-based matching. This component shall always be present. Attribute types listed by this component may not necessarily all be present in the filter. The value is determined by the information object instance of a specialization of this information object class.

d)   The **&combinable** field is a value of boolean type that, if **TRUE**, permits the mapping-based matching to use multiple combinable filter items in the satisfaction of the match against the mapping table. The **combinable** is a dummy reference for the value of this component to be determined by a specialization of this information object class.

h)   The **&matching-rule** field is a value of object identifier type identifying the matching-based matching rule for which this instance provides additional specification and which shall be applied for the mapping-based matching. The **matchingRule** dummy reference for the value of this component is to be determined by a specialization of this information object class. The matching rule specified shall be used for the particular mapping-based matching.

*In 14.8, remove the **obsolete** component of the **SearchRuleDescription***

Replace the second to the last sentence of 16.5 with:

It might be a requirement that certain attribute shall be present; it might be a requirement that at least one out of two attribute types shall be present; it might be a requirement that one attribute type is not allowed without another being present; etc.

*In 16.10, the **SearchRule** data type, replace:*

    inputAttributeTypes   **[3]**   SEQUENCE SIZE (1 .. MAX) OF RequestAttribute   OPTIONAL,

with:

    inputAttributeTypes   **[3]**   SEQUENCE SIZE (0 .. MAX) OF RequestAttribute   OPTIONAL,

*In 16.10, update the **ResultAttribute** data type to:*

```
ResultAttribute ::= SEQUENCE {
    attributeType           ATTRIBUTE.&id ({ SupportedAttributes }),
    outputValues            CHOICE {
        selectedValues          SEQUENCE OF ATTRIBUTE.&Type
                                    ({ SupportedAttributes }{ @attributeType }),
        matchedValuesOnly    NULL } OPTIONAL,
    contexts                [0] SEQUENCE SIZE (1 .. MAX) OF ContextProfile  OPTIONAL }
```

*In 16.10, delete the **OutputValues** data type:*

*In 16.10, replace the **MRSubstitution** data type with:*

```
MRSubstitution ::= SEQUENCE {
    attribute                   AttributeType,
    oldMatchingRule     [0]     MATCHING-RULE.&id  OPTIONAL,
    newMatchingRule[1]     MATCHING-RULE.&id  OPTIONAL }
```

In 16.2.4, add after the first sentence:

(see 16.7)

Replace the note at the end of 16.2.4 with:

> NOTE – This will permit a service to be tailored in such a way that a user with simple equipment in most cases can receive information without contexts.

*16.10.7, the explanation to the **MRSubstitution** element replace item c) with:*

c)   **newMatchingRule** is the object identifier for the substitute matching rule that is to be used in place of the old matching rule. If absent, any corresponding filter-items are evaluated as TRUE for a non-negated item, and FALSE for a negated item (i.e. in accordance with **id-mr-nullMatch**).

The following applies only for matching rule substitution specified in a **search** request. If a matching rule is specified for which there is a matching restriction for the attribute type (see 16.10.2, item g)) that will make the **search** request non-compliant with the governing-search-rule; or an unsupported or incompatible matching rule is specified, the substitution is abandoned and no further substitution is performed for the attribute type.

In 16.10.10, in the **RESULT-ATTRIBUTE** information object class, replace the **&outputValues** field with:

```
&outputValues               CHOICE {
    selectedValues          SEQUENCE OF ATTRIBUTE.&Type,
    matchedValuesOnly    NULL }                               OPTIONAL,
```

12.   <u>Editor's Response</u>:

(any material proposed for processing as an erratum to, an amendment to, or a commentary

on the IS or DIS final text/ITU Recommendation or Draft Recommendation is attached

separately to this completed report).