

```
UMINHO-GR-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    experimental,
    MODULE-IDENTITY,
    OBJECT-TYPE
        FROM SNMPv2-SMI          DisplayString
        FROM SNMPv2-TC          OBJECT-GROUP
        FROM SNMPv2-CONF;
```

```
unpredictableMIB MODULE-IDENTITY
```

```
    LAST-UPDATED "201701301238Z"          -- Jan 30, 2017 12:38:00 PM
```

```
    ORGANIZATION "University of Minho"
```

```
    CONTACT-INFO
```

```
        "- Bruno Pereira a72628@alunos.uminho.pt"
```

```
    DESCRIPTION
```

```
        "MIB for a random number generation server. This type of remote service
over the internet will be available to other systems that need ways to get random
numbers, where the latter are not controlled by internal processes, to their own
computer system."
```

```
    REVISION "201701301238Z"          -- Jan 30, 2017 12:38:00 PM
```

```
    DESCRIPTION
```

```
        "Initial version."
```

```
    -- 1.3.6.1.3.99
```

```
    ::= { experimental 99 }
```

```
unpredictableParamGroup OBJECT-GROUP
```

```
    OBJECTS {
```

```
        paramR,
        paramD,
        paramN,
        paramAuthReset
    }
```

```
    STATUS current
```

```
    DESCRIPTION
```

```
        "Group with scalar objects that represent the operating parameters;"
```

```
    -- 1.3.6.1.3.99.1
```

```
    ::= { unpredictableMIB 1 }
```

```
unpredictableTableGroup OBJECT-GROUP
```

```
    OBJECTS {
```

```
        indexRandHexNumber,
        randomHexadecimalNumber
    }
```

```
    STATUS current
```

```
    DESCRIPTION
```

```
        "Group with table of N random numbers;"
```

```
    -- 1.3.6.1.3.99.2
```

```
    ::= { unpredictableMIB 2 }
```

```
unpredictableParam OBJECT IDENTIFIER
```

```
    -- 1.3.6.1.3.99.3
```

```
    ::= { unpredictableMIB 3 }
```

```
paramR OBJECT-TYPE
```

```
    SYNTAX INTEGER (1..1000)
```

```
    UNITS "Hz"
```

```
    MAX-ACCESS read-only
```

```
    STATUS current
```

```
    DESCRIPTION
```

```
        "Frequency R of refreshing the table of random numbers (in Hz);"
```

```
    -- 1.3.6.1.3.99.3.1
```

```
    ::= { unpredictableParam 1 }
```

```

paramN OBJECT-TYPE
    SYNTAX      INTEGER (1..1000)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "N number of entries in the random number table;"
    -- 1.3.6.1.3.99.3.2
    ::= { unpredictableParam 2 }

paramD OBJECT-TYPE
    SYNTAX      INTEGER (1..1000)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of D hexadecimal digits of each entry in the random number
table;"
    -- 1.3.6.1.3.99.3.3
    ::= { unpredictableParam 3 }

paramAuthReset OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Authorizations for the agent reset operation."
    -- 1.3.6.1.3.99.3.4
    ::= { unpredictableParam 4 }

unpredictableTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF UnpredictableTableEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This is the table used for storage of random sequence of hexadecimal
digits"
    -- 1.3.6.1.3.99.5
    ::= { unpredictableMIB 5 }

indexRandHexNumber OBJECT-TYPE
    SYNTAX      INTEGER (1..1000)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Index for the entry of the random hexadecimal number of the table"
    -- 1.3.6.1.3.99.5.1.1
    ::= { unpredictableTableEntry 1 }

randomHexadecimalNumber OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Sequence of D hexadecimal digits."
    -- 1.3.6.1.3.99.5.1.2
    ::= { unpredictableTableEntry 2 }

```

```

unpredictableTableEntry OBJECT-TYPE
    SYNTAX      UnpredictableTableEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry for the information about a specific random hexadecimal
digit"
    INDEX {
        indexRandHexNumber
    }
    -- 1.3.6.1.3.99.5.1
    ::= { unpredictableTable 1 }

UnpredictableTableEntry ::= SEQUENCE {
    indexRandHexNumber      INTEGER,
    randomHexadecimalNumber DisplayString
}

END

```