```
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 }

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"
        -- 1.3.6.1.3.99.7.1.1
        ::= { randomTableEntry 1 }

randomHexadecimalNumber OBJECT-TYPE
        SYNTAX        DisplayString
        MAX-ACCESS  read-write
        STATUS        current
        DESCRIPTION
                "Sequence of D hexadecimal digits."
        -- 1.3.6.1.3.99.7.1.2
        ::= { randomTableEntry 2 }

randomTableEntry OBJECT-TYPE
        SYNTAX        RandomTableEntry
        MAX-ACCESS  not-accessible
        STATUS        current
        DESCRIPTION
                "An entry for the information about a specific random hexadecimal
digit"
        INDEX {
                indexRandHexNumber
        }
        -- 1.3.6.1.3.99.7.1
        ::= { randomTable 1 }

RandomTableEntry ::= SEQUENCE {
                indexRandHexNumber        INTEGER,
                randomHexadecimalNumber DisplayString
        }
```

```
unpredictableTable OBJECT-GROUP
        OBJECTS {
                indexRandHexNumber,
                randomHexadecimalNumber
        }
        STATUS      current
        DESCRIPTION
                "Group with table of N random numbers;"
        -- 1.3.6.1.3.99.1
        ::= { unpredictableMIB 1 }

unpredictableParam OBJECT-GROUP
        OBJECTS {
                paramR,
                paramD,
                paramN,
                paramAuthReset
        }
        STATUS      current
        DESCRIPTION
                "Group with scalar objects that represent the operating parameters;"
        -- 1.3.6.1.3.99.2
        ::= { unpredictableMIB 2 }

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
        ::= { unpredictableMIB 3 }

paramN OBJECT-TYPE
        SYNTAX      INTEGER (1..1000)
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
                "N number of entries in the random number table;"
        -- 1.3.6.1.3.99.4
        ::= { unpredictableMIB 4 }

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;"
        -- 1.3.6.1.3.99.5
        ::= { unpredictableMIB 5 }

paramAuthReset OBJECT-TYPE
        SYNTAX      DisplayString
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
                "Authorizations for the agent reset operation."
        -- 1.3.6.1.3.99.6
        ::= { unpredictableMIB 6 }
```

```
randomTable OBJECT-TYPE
        SYNTAX        SEQUENCE OF RandomTableEntry
        MAX-ACCESS    not-accessible
        STATUS        current
        DESCRIPTION
                "This is the table used for storage of random sequence of hexadecimal
digits"
        -- 1.3.6.1.3.99.7
        ::= { unpredictableMIB 7 }

END
```