|  |  |
| --- | --- |
| SQLRECORD | |
| Class | Description |
| @@CLASS@@ | @@DESCRIPTION@@ |

# Scope

|  |
| --- |
| SQLROW SELECT Requirement FROM tblClass\_Requirement WHERE Type='Scope' AND Level = @@SCOPE@@ AND Class = @@CLASS@@ |
| Module Scope |
| @@REQUIREMENT@@ |

# Functional Requirements

|  |  |
| --- | --- |
| SQLROW SELECT Reqref, Requirement FROM tblClass\_Requirement WHERE Type='Req' AND Level = @@SCOPE@@ AND Class = @@CLASS@@ | |
| Req Ref | Requirement |
| @@REQREF@@ | @@REQUIREMENT@@ |

# State Diagram

|  |
| --- |
| IMAGE @@CLASS@@.png |
|  |

# States

|  |  |  |  |
| --- | --- | --- | --- |
| SQLROW SELECT State, StateDescription, AlarmState, SFC FROM tblClass\_State WHERE Level = @@SCOPE@@ AND Class = @@CLASS@@ | | | |
| State | Alarm State | State Description | SFC |
| @@STATE@@ | @@ALARMSTATE@@ | @@STATEDESCRIPTION@@ | @@SFC@@ |

# Child Device Initial States

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SQLROW SELECT V.State, C.childAliasTag, C.childAliasClass, C.childAliasDescription, V.Explanation FROM tblClass\_Child AS C LEFT JOIN tblClass\_ChildStateValues AS V ON C.childAliasTag = V.childAliasTag WHERE C.Level = @@SCOPE@@ AND C.Class = @@CLASS@@ ORDER BY V.State, C.childAliasClass, C.childAliasTag | | | | |
| State | Child Alias | Class | Description | Initial State |
| @@STATE@@ | @@CHILDALIASTAG@@ | @@CHILDALIASCLASS@@ | @@CHILDALIASDESCRIPTION@@ | @@EXPLANATION@@ |

# Transitions

|  |  |
| --- | --- |
| SQLROW SELECT Transition, Description FROM tblClass\_Transition WHERE Level = @@SCOPE@@ AND Class = @@CLASS@@ | |
| Transition | Description |
| @@TRANSITION@@ | @@DESCRIPTION@@ |

# Parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SQLROW SELECT Parameter, ParameterDescription, ParameterMin, ParameterMax, ParameterValue FROM tblClass\_Parameter WHERE Level = @@SCOPE@@ AND ParameterClass = @@CLASS@@ | | | | | |
| Parameter | Description | Min | Max | Default | Unit |
| @@PARAMETER@@ | @@PARAMETERDESCRIPTION@@ | @@PARAMETERMIN@@ | @@PARAMETERMAX@@ | @@PARAMETERVALUE@@ | @@UOM@@ |

# Alarms

|  |  |  |  |
| --- | --- | --- | --- |
| SQLROW SELECT Mnemonic, Condition, Priority, Message FROM tblClass\_Alarm WHERE Level = @@SCOPE@@ AND Class = @@CLASS@@ | | | |
| Alarm | Condition | Priority | Message |
| @@MNEMONIC@@ | @@CONDITION@@ | @@PRIORITY@@ | @@MESSAGE@@ |

# I/O

Physical I/O and ProfiNET I/O prefixed with a “P”.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SQLROW SELECT Mnemonic, Description, printf('%d',DI) AS DI, printf('%d',DO) AS DO, printf('%d',AI) AS AI, printf('%d',AO) AS AO, printf('%d',PDI) AS PDI, printf('%d',PDO) AS PDO, printf('%d',PAI) AS PAI, printf('%d',PAO) AS PAO FROM tblClass\_IO WHERE Level = @@SCOPE@@ AND Class = @@CLASS@@ | | | | | | | | | |
| Mnemonic | Description | DI | DO | AI | AO | PDI | PDO | PAI | PAO |
| @@MNEMONIC@@ | @@DESCRIPTION@@ | @@DI@@ | @@DO@@ | @@AI@@ | @@AO@@ | @@PDI@@ | @@PDO@@ | @@PAI@@ | @@PAO@@ |