#### ExcelUtil

##### **ExcelUtil::isModuleFilePath()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isModuleFilePath | | |
| **Description** | 입력 파일명, 모듈, 확장자를 확인하여 모듈 파일명을 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const QString& path, const QString& module, const QString& fileExtension |
| **Function Sequential Description** | | | |
| 1. Key, value 로 구성된 리스트 데이터를 내부 변수에 저장 | | | |

[표 289] Function Description : ExcelUtil::isModuleFilePath

##### **ExcelUtil::isModuleListFromJson()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isModuleListFromJson | | |
| **Description** | App 모드(CV, PV)별 모듈명, 모듈 파일 경로 확인 하여 리스트 구성 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QMap<QString, QPair<QString, QString>> | **Input** | const int& appMode, const bool& yml, const bool& toUpper |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isModuleListFromJson

##### **ExcelUtil::isDescriptionDataInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isDescriptionDataInfo | | |
| **Description** | ExcelData 에 저장되어 있는 Description 시트 정보 읽는 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QStringList | **Input** | N/A |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isDescriptionDataInfo

##### **ExcelUtil::isDescriptionValueCount()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isDescriptionValueCount | | |
| **Description** | ExcelData 에 저장되어 있는 Description 시트의 ValueCount 컬럼 정보 읽는 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | int | **Input** | N/A |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isDescriptionValueCount

##### **ExcelUtil::isDescriptionPreconditionCount()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isDescriptionPreconditionCount | | |
| **Description** | ExcelData 에 저장되어 있는 Description 시트의 PreconditionCount 컬럼 정보 읽는 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | int | **Input** | N/A |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isDescriptionPreconditionCount

##### **ExcelUtil::isCurrentCellText()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isCurrentCellText | | |
| **Description** | ExcelData 에 저장되어 있는 시트의 Row, Column 위치의 셀 정보 읽는 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const int& sheetIndex, const int& rowIndex, const int& columnIndex |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isCurrentCellText

##### **ExcelUtil::isKeywordPatternInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isKeywordPatternInfo | | |
| **Description** | 컬럼별 키워드 스트링, 키워드 인덱스 리스트 구성함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QList<QPair<QString, int>> | **Input** | const int& columnIndex |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isKeywordPatternInfo

##### **ExcelUtil::isKeywordString()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isKeywordString | | |
| **Description** | 키워드 리스트 정보에서 키워드 타입별 키워드 스트링 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const int keywordType |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isKeywordString

##### **ExcelUtil::isKeywordType()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isKeywordType | | |
| **Description** | 입력 데이터 리스트에서 컬럼별 구성가능한 키워드와 비교하여 키워드 타입 확인 | | |
| **Class** | ExcelUtil | | |
| **Return** | int | **Input** | const int& columnIndex, QString& inputData |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isKeywordType

##### **ExcelUtil::isComlumnIndex()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isComlumnIndex | | |
| **Description** | 시트별 컬럼 인덱스 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | int | **Input** | const int& sheetIndex, const int& type |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isComlumnIndex

##### **ExcelUtil::isIGNElapsedType()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isIGNElapsedType | | |
| **Description** | 입력 ign 시그널 명에 매핑 되는 ign 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QPair<int, int> | **Input** | const QString& singalName |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isIGNElapsedType

##### **ExcelUtil::isIGNElapsedName()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isIGNElapsedName | | |
| **Description** | 입력 ign 정보에 매핑 되는 ign 시그널명 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const int& ignType |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isIGNElapsedName

##### **ExcelUtil::isConvertedIGNElapsedInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isConvertedIGNElapsedInfo | | |
| **Description** | 입력 ign 정보 리스트에서 매칭된 ign 변환 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QPair<QStringList, QStringList> | **Input** | const QStringList& ignOriginData |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isConvertedIGNElapsedInfo

##### **ExcelUtil::isConvertedKeywordType()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isConvertedKeywordType | | |
| **Description** | 입력 키워드 타입을 Normal, Custom 키워드 타입으로 변환하는 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | int | **Input** | const bool& toCustom, const int& keywordType |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : CaseDataWriter∷AAAAAAAAAAAAAAAA

##### **ExcelUtil::isMaxValue()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isMaxValue | | |
| **Description** | 셀에 입력가능한 최대값 문자열 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const bool& doubleType |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isMaxValue

##### **ExcelUtil::isValidMaxValue()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isValidMaxValue | | |
| **Description** | 입력 정보 기준으로 매칭 되는 최대값 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const QString& signalName, const int& dataType, const int& keywordType, const QStringList& inputData, const StringList& valueEnum |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::isValidMaxValue

##### **ExcelUtil::pythonCall()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | pythonCall | | |
| **Description** | 파이썬 코드 호출 및 결과 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const bool& readFile, const QString& filePath |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::pythonCall

##### **ExcelUtil::writeExcelSheet()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | writeExcelSheet | | |
| **Description** | 엑셀 데이터 시트 저장 함수(ExcelData) | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QString& filePath, const bool& convert |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::writeExcelSheet

##### **ExcelUtil::openExcelFile()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | openExcelFile | | |
| **Description** | 엑셀 파일 오픈하여 시트 데이터 구성, 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QList<QVariantList> | **Input** | const QString& filePath |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::openExcelFile

##### **ExcelUtil::initPresetInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | initPresetInfo | | |
| **Description** | Preset.json 파일을 읽어서 Preset 데이터 컨테이너(key, value) 로 구성 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | N/A |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::initPresetInfo

##### **ExcelUtil::readPreset()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | readPreset | | |
| **Description** | Preset 데이터 컨테이너에서 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const QString& key |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::readPreset

##### **ExcelUtil::getMergeStart()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getMergeStart | | |
| **Description** | 머지 시작 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const QString& MergeStart |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getMergeStart

##### **ExcelUtil::getMerge()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getMerge | | |
| **Description** | 머지 중간 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const QString& Merge |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getMerge

##### **ExcelUtil::getMergeEnd()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getMergeEnd | | |
| **Description** | 머지 마지막 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QString | **Input** | const QString& MergeEnd |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getMergeEnd

##### **ExcelUtil::getMergeInfos()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getMergeInfos | | |
| **Description** | 전체 머치 리스트(MergeStart, Merge, MergeEnd) 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QStringList | **Input** | const QStringList& MergeInfos |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getMergeInfos

##### **ExcelUtil::getInitPreset()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getInitPreset | | |
| **Description** | Preset 정보 컨테이너 구성 완료상태 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | bool | **Input** | const bool& InitPreset |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getInitPreset

##### **ExcelUtil::getJsonRoot()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getJsonRoot | | |
| **Description** | Preset 파일 Json 저장 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QJsonObject | **Input** | const QJsonObject& JsonRoot |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getJsonRoot

##### **ExcelUtil::getJsonSectionInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getJsonSectionInfo | | |
| **Description** | Preset 파일 Json 섹션 저장 정보 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QStringList | **Input** | const QStringList& JsonSectionInfo |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getJsonSectionInfo

##### **ExcelUtil::getPresetInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | getPresetInfo | | |
| **Description** | Preset 정보 컨테이너에서 Preset 데이터 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QMapStrStr | **Input** | const QString& key |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::getPresetInfo

##### **ExcelUtil::readPresetInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | readPresetInfo | | |
| **Description** | Preset 정보 컨테이너에서 Preset 전체 데이터 확인 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | QMap<QString, QMapStrStr> | **Input** | const QString& key |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::readPresetInfo

##### **ExcelUtil::setMergeStart()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setMergeStart | | |
| **Description** | 머지 시작 정보 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QString& MergeStart |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setMergeStart

##### **ExcelUtil::setMerge()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setMerge | | |
| **Description** | 머지 중간 정보 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QString& Merge |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setMerge

##### **ExcelUtil::setMergeEnd()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setMergeEnd | | |
| **Description** | 머지 마지막 정보 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QString& MergeEnd |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setMergeEnd

##### **ExcelUtil::setMergeInfos()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setMergeInfos | | |
| **Description** | 전체 머치 리스트(MergeStart, Merge, MergeEnd) 정보 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QStringList& MergeInfos |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setMergeInfos

##### **ExcelUtil::setInitPreset()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setInitPreset | | |
| **Description** | Preset 정보 컨테이너 구성 완료상태 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const bool& InitPreset |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setInitPreset

##### **ExcelUtil::setJsonRoot()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setJsonRoot | | |
| **Description** | Preset 파일 Json 저장 정보 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QJsonObject& JsonRoot |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setJsonRoot

##### **ExcelUtil::setJsonSectionInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setJsonSectionInfo | | |
| **Description** | Preset 파일 Json 섹션 저장 정보 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QStringList& JsonSectionInfo |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setJsonSectionInfo

##### **ExcelUtil::setPresetInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | setPresetInfo | | |
| **Description** | Preset 정보 컨테이너에서 Preset 데이터 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QString& key, const QMapStrStr& value |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::setPresetInfo

##### **ExcelUtil::writePresetInfo()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | writePresetInfo | | |
| **Description** | Preset 정보 컨테이너에서 Preset 전체 데이터 저장 함수 | | |
| **Class** | ExcelUtil | | |
| **Return** | void | **Input** | const QMap<QString, QMapStrStr>& value |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelUtil::writePresetInfo

#### SignalDataManager

##### **SignalDataManager::** **isDataType ()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isDataType | | |
| **Description** | 입력 데이터 타입 문자열에 매칭되는 데이터 자료형 확인 함수 | | |
| **Class** | SignalDataManager | | |
| **Return** | int | **Input** | const QString& dataTypeStr |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷isDataType

##### **SignalDataManager::** **isSignalType ()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isSignalType | | |
| **Description** | 입력 시그널 문자열에 매칭되는 시그널 타입 확인 함수 | | |
| **Class** | SignalDataManager | | |
| **Return** | int | **Input** | const QString& signalName |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷isSignalType

##### **SignalDataManager::** **isSignalDataList ()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isSignalDataList | | |
| **Description** | 입력 정보 기준으로 확인 된 시그널 정보 확인 함수 | | |
| **Class** | SignalDataManager | | |
| **Return** | QMap<int, QStringList> | **Input** | const QString& signalName, const QStringList& inputData, const QString& vehicleType, int& dataType |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷isSignalDataList

##### **SignalDataManager::** **isSignalValueEnum ()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isSignalValueEnum | | |
| **Description** | 입력 시그널명과 ValueEnum 데이터를 확인하여 Enum 이면 Hex 로, Hex 면 Enum으로 변환 하고 확인하는 함수 | | |
| **Class** | SignalDataManager | | |
| **Return** | QString | **Input** | const QString& signalName, const QString& value |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷isSignalValueEnum

##### **SignalDataManager::** **isSignalValueEnum ()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | isSignalValueEnum | | |
| **Description** | 입력 시그널명의 ValueEnum 데이터를 확인하여 Enum, Hex 로 변환하여 확인하는 함수 | | |
| **Class** | SignalDataManager | | |
| **Return** | QStringList | **Input** | const bool& toEnum, const QString& signalName |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷isSignalValueEnum

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

##### **SignalDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | SignalDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : SignalDataManager∷AAAAAAAAAAAAAAAA

#### ExcelDataManager

##### **ExcelDataManager::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | ExcelDataManager | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : ExcelDataManager∷AAAAAAAAAAAAAAAA

#### TestCase

##### **TestCase::AAAAAAAAAAAAAAAA()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | AAAAAAAAAAAAAAAA | | |
| **Description** |  | | |
| **Class** | TestCase | | |
| **Return** |  | **Input** |  |
| **Function Sequential Description** | | | |
|  | | | |

[표 289] Function Description : TestCase∷AAAAAAAAAAAAAAAA