2020_2_0_SIwave_2

oApp(20)

CloseProject(string projname)
CloseProjectNoForce(string projname)
GetActiveProject() -> IDispatch
GetAppDesktop() -> IDispatch
GetExtractorDesktop() -> string
GetProjectDirectory() -> string
GetProjectList() -> Structured Array
GetVersion() -> string
ImportAnfFile(string fileName) -> IDispatch
ImportOdb(string odbBstr, string xmlBstr) -> IDispatch
IsInteractiveDesktop() -> int
OpenProject(string itemPath) -> IDispatch
PauseRecording()
Quit()
ReleaseDesktopPtr(string desktop)
RestoreWindow()
ResumeRecording()
SetActiveProject(string projname) -> IDispatch
SupportSParamLink() -> int
TpaComputeRLC(string dummy) -> IDispatch

oProject(437)

GetActiveDesign() -> IDispatch
GetConfigurableData(string type) -> string
GetData(string linkType, string configStr, [string msg /*optional*/]) -> string
GetFileDir() -> string
GetFilePath() -> string
GetModule(string moduleName) -> IDispatch
GetName() -> string
GetNetworkDataSolution(string solnName) -> string
GetNetworkDataSolutionDefinition(string solnName) -> Structured Array
GetTopDesignList() -> Structured Array
IsSolutionDataAvailable(string solnName) -> int
Save()
ScrActivateCktElem(string elemName, string elemType, int activate) -> int
ScrAddEquipotentialRegion(string partName, string refDes, string pinName, int regionOnTop) -> int
ScrAddError(string msg)
ScrAddInfo(string msg)
ScrAddLayer(string layerName, string refLayerName, int toAbove, int type, double thickness, string layerMaterialName)
ScrAddMaterial(string matType, string matName, double epsOrSigma, double ltOrPerm) -> short
ScrAddOneLayerPadstack(string padstackName, string layerName, string shape, string width, string height) -> int
ScrAddStackupLayer(string layerName, string refLayerName, int toAbove, int type, string thickness, string layerMaterialName) -> int
ScrAddWarning(string msg)
ScrAppendSteppedSweep(string sweepType, double minFreq, double maxFreq, double stepSize) -> int
ScrAppendSweep(string sweepType, double minFreq, double maxFreq, int numPts, int isLog) -> int
ScrAssign4PtBondwireProfile(string layerName, double h1, double h2, double radius, string supportLayerName, string terminationLayerName) -> int
ScrAssign5PtBondwireProfile(string layerName, double h1, double h2, double radius, double alpha, double beta, string supportLayerName, string terminationLayerName) -> int
ScrAssignBondwireTerminalType(string netNameRegExp, string referenceDesigRegExp, string pinNameRegExp, int isSink) -> int
ScrAssignComplexSolderballProfile(string padstackName, double height, double radius, double midRadius, double frustumHeight, int placement, int terminalType) -> int
ScrAssignLowBondwireProfile(string layerName, double h1, double h2, double radius, double alpha, double beta, string supportLayerName, string terminationLayerName) -> int
ScrAssignSimpleSolderballProfile(string padstackName, double height, double radius, int placement, int terminalType) -> int
ScrAssignSketchedBondwireProfile(string layerName, string filePath, double radius, string supportLayerName, string terminationLayerName) -> int
ScrAssignSketchedBondwireProfileFromArray(string layerName, string units, Structured Array bwPoints, double radius, string supportLayerName, string terminationLayerName) -> int
ScrAssignSolderballTerminalType(string netNameRegExp, string referenceDesigRegExp, string pinNameRegExp, int isSink) -> int
ScrBooleanUnite(Structured Array netNameList) -> int
ScrChangePartType(string partName, string newtype) -> int
ScrCleanUpOverlappingtraces(Structured Array layerNameList) -> int
ScrClearAllSweeps(string sweepType) -> int
ScrClipDesign(Structured Array netNames, Structured Array points) -> int
ScrClipDesignAroundNets(Structured Array netNames, string clipExtentDist, int simplifiedExtent, int traceCuttingOption, int ignoreLayerVis, int reverseCutting) -> int

ScrCloseProject()
ScrCloseProjectNoSave()
ScrComputeFwsSubckt(string syzSimName, string bstrpath) -> short
ScrComputeFwsSubcktForNamedSim(string simType, string simName, string bstrpath) -> short
ScrConvertPlanesToTraces(Structured Array netNameList) -> int
ScrConvertTracesToPlanes(string layerName, string netName, int merge, double minArea, string unitName) -> int
ScrConvertTracesToPlanesByNet(Structured Array netNameList) -> int
ScrCopyImageToClipBoard()
ScrCorrectValChkErrorsWarnings(Structured Array fixOptionArray) -> short
ScrCreatePinGroupByDist(string partName, string refDes, string pinName, string groupName, string maxDistance, int selectFromAllNets) -> int
ScrCreatePinGroupByNet(string partName, string refDes, string netName, string groupName, int applyToAllComponents) -> int
ScrCreatePinGroups(string partName, string refDes, Structured Array pinNames, string groupName, int applyToAllComponents) -> int
ScrCreatePinGroupsByGrid(string partName, string refDes, int numRows, int numCols, int applyPerNet, int applyToAllComponents) -> int
ScrCreatePortsOnPart(string partName, string refDes, string posNet, Structured Array posPinList, string refNet, string impedance) -> int
ScrDeleteAllNets()
ScrDeleteCktElem(string refDes) -> int
ScrDeleteDcSolution()
ScrDeleteFrequencySweepSolution()
ScrDeleteLayer(string layerNameBstr) -> int
ScrDeleteNearFieldSolutions()
ScrDeleteNet(string netName) -> int
ScrDeleteNets(Structured Array netNames)
ScrDeleteNetsGivenInFile(string fileName)
ScrDeletePadstack(string padstackName) -> int
ScrDeletePinGroup(string pinGroupName, int deleteRefCktElems) -> int
ScrDeleteResonantModeSolution()
ScrDeleteSpiceSubcktSolution()
ScrDeleteSyzParameterSolution()
ScrDrawAutoPlaneExtents(int simplified, string dist) -> int
ScrDrawCapacitor(string capName, string partNameBstr, double px, double py, double nx, double ny, string posLayerName, string negLayerName, double capVal, double seriesIndVal, double seriesResVal) -> short
ScrDrawCircle(double ctrX, double ctrY, double radius, string layerName, string netName, string unitsBstr) -> short
ScrDrawCurrentSource(string sourceName, string partNameBstr, double px, double py, double nx, double ny, string posLayerName, string negLayerName, double mag, double phase, double parallelRes) -> short
ScrDrawInductor(string indName, string partNameBstr, double px, double py, double nx, double ny, string posLayerName, string negLayerName, double indVal) -> short
ScrDrawPolygon(Structured Array points, string layerName, string netName, string unitsBstr) -> short
ScrDrawPort(string portName, double px, double py, double nx, double ny, string posLayerName, string negLayerName, double refZRe) -> short
ScrDrawRectangle(double x1, double y1, double x2, double y2, string layerName, string netName, string unitsBstr) -> short
ScrDrawResistor(string resName, string partNameBstr, double px, double py, double nx, double ny, string posLayerName, string negLayerName, double resVal) -> short
ScrDrawTrace(Structured Array points, double width, string layerName, string netName, string unitsBstr) -> short
ScrDrawVia(double ctrX, double ctrY, string topLayerName, string botLayerName, string padstackName, string netName, double offsetX, double offsetY, double rotAngle, string unitsBstr) -> short
ScrDrawVoltageProbe(string probeName, double px, double py, double nx, double ny, string posLayerName, string negLayerName) -> short
ScrDrawVoltageSource(string sourceName, string partNameBstr, double px, double py, double nx, double ny, string posLayerName, string negLayerName, double mag, double phase, double seriesRes) -> short
ScrEditCktElemName(string name, string type, string newName) -> int
ScrEditLayerName(string layerName, string newLayerName)
ScrEditMaterial(string matType, string matName, double epsOrSigma, double ltOrPerm) -> short
ScrEditNetName(string netName, string newNetName)
ScrEditPadStackName(string oldPadstackName, string newPadstackName) -> int
ScrEnableCavityFieldCoupling(int flag)
ScrEnableCoPlaneCoupling(int flag)
ScrEnableErcSimSetup(int flag)
ScrEnableExcludeNonFuncPads(int flag)
ScrEnableFwsRelativeErrorTol(int enableIt)
ScrEnableIntraPlaneCoupling(int flag)
ScrEnableSplitPlaneCoupling(int flag)
ScrEnableTraceCoupling(int flag)
ScrExport3DModel(string exportTypeName, string outFilePath) -> int
ScrExportAEDT(string aedtBstr, int useAutoNetSelect) -> int
ScrExportAnf(string anfBstr) -> int
ScrExportComponentFile(string cmpBstr) -> int
ScrExportCpaSimReport(string bCpaSimName, string bReportPath) -> short
ScrExportDcPowerDataToIcepak(int exportPowerData)
ScrExportDcPowerTree(string bSimName, string bThresholdSpecCsvFilePath, string bOutputImagePath) -> short
ScrExportDcSimReport(string bSimName, string bImgBackgroundColor, string bReportPath) -> short
ScrExportDcSimReportColorBarProperties(int numDiv, int numDigit, int bFlipColorScale, int bWhiteBeyondMinMax) -> short
ScrExportDcSimReportOptions(int bShowDevices, string filtersXMLFileName) -> short
ScrExportDcSimReportScaling(string layerName, string plotType, double minVal, double maxVal, int bLogScale) -> short
ScrExportDcSimReportUnits(string curDenUnits, string vltUnits, string pwrDenUnits) -> short

ScrExportEDB(string edbBstr) -> int
ScrExportElementData(string simName, string fileName, string tabTitle) -> int
ScrExportIcepakProject(string projectPath, string dcSimName) -> short
ScrExportIcepakSimReport(string bSimName, string bReportPath) -> short
ScrExportIcepakSimReportColorBarProperties(int numDiv, int numDigit, int bFlipColorScale, int bWhiteBeyondMinMax) -> short
ScrExportIcepakSimReportScaling(double minVal, double maxVal, int bLogScale) -> short
ScrExportIcepakSimReportUnits(string tempUnits) -> short
ScrExportInfoWarningErrorTree(string fileName) -> int
ScrExportLayerStackup(string fileName)
ScrExportNamedSimToTouchstone(string simType, string simName, string bstrpath) -> short
ScrExportNearFieldAllMaxFieldFaceDataToCSV(string simName, string fileName) -> int
ScrExportNearFieldFaceDataToCSV(string simName, string fileName) -> int
ScrExportNearFieldMaxFaceDataToCSV(string simName, string fileName) -> int
ScrExportNetDelayReport(string bReportPath, string netNameRegExp, string lengthUnits, string delayUnits, int bOnlyDieToBall) -> short
ScrExportSettingsFile(string sefBstr) -> int
ScrExportSettingsFileSetOptions(Structured Array optionArray) -> int
ScrExportSpiceSubcktFromSParamSim(string bSimType, string bSimName, string bFreq, string bSpiceFormat, int numLumps, string bOutputSpiceSubcktFilePath, Structured Array errors) -> int
ScrExportSyzSimToTouchstone(string syzSimName, string bstrpath) -> short
ScrExportToTouchstone(string bstrpath) -> short
ScrExportVprobeData(string acSimName, string bstrpath) -> short
ScrExportXfl(string xflBstr) -> int
ScrExportZ0ScanReport(string bSimName, string bReportPath) -> int
ScrExportZ0ScanReportColorBarProperties(int numDiv, int numDigit, int bFlipColorScale, int bWhiteBeyondMinMax) -> short
ScrExportZ0ScanReportScaling(double minVal, double maxVal, int bLogScale) -> short
ScrFitAll()
ScrFitSelection()
ScrFwsEnforceCausality(int enforce)
ScrGenerateConnectionReport(string fileName) -> int
ScrGenerateFarFieldReport(string simulationName, int plotType) -> int
ScrGenerateICDieNetwork(string icPartName, string refDes, string net, string networkName, string resVal, int useStarPattern, string capVal, string esr, string toNet, int useAutoRadius, string resRadius, string capRadius) -> int
ScrGenerateSyzReport(string simulationName, int plotType, int plotSubType) -> int
ScrGenerateVoltageProbeReport(string simulationName, int plotType) -> int
ScrGet2PortSYZData(string paramType, string simName, string port1Name, string port2Name, Structured Array freqData, Structured Array syzMag, Structured Array syzPhase) -> int
ScrGetActiveComponentList(string compType) -> Structured Array
ScrGetBondwireProfilesProperty() -> Structured Array
ScrGetBondwiresOfBwModel(string bwModelName) -> Structured Array
ScrGetBwModelNameList() -> Structured Array
ScrGetCktElemTerminalNetNames(string name, string type, Structured Array pnet, Structured Array nnet) -> int
ScrGetComponentList(string compType) -> Structured Array
ScrGetDcConnectedNets(Structured Array netNameList, Structured Array nets, Structured Array cktElems) -> int
ScrGetDcThermalDataDir(string simName, Structured Array thermalDataDirBstr) -> int
ScrGetDesignBoundingBox(string units, Structured Array designBBox) -> int
ScrGetDieLayerName(string dieName) -> string
ScrGetDieNameList() -> Structured Array
ScrGetLayerMaterial(string layerNameBstr) -> string
ScrGetLayerNameList() -> Structured Array
ScrGetLayerThickness(string layerName) -> double
ScrGetLayerType(string layerName) -> int
ScrGetLayoutLengthUnit() -> string
ScrGetMetalLayerFillerMaterial(string layerNameBstr) -> string
ScrGetNetNameList() -> Structured Array
ScrGetNetlistOfBondwireProfile(string profileName) -> Structured Array
ScrGetNetsAndCktElemsBetweenComponents(string partname1, string refDes1, string partname2, string refDes2, Structured Array nets, Structured Array cktElems) -> int
ScrGetNetsAndCktElemsBetweenNets(string net1, string net2, Structured Array nets, Structured Array cktElems) -> int
ScrGetPadstackNameList() -> Structured Array
ScrGetPinGroupNameList(string partName, string refDes) -> Structured Array
ScrGetPinPadstackName(string bPartName, string bRefDes, string bPinName) -> string
ScrGetPinsOnNet(string netName, string partName, string refDes, Structured Array pinNames, Structured Array partNames, Structured Array refDesOut) -> int
ScrGetPinsOnPart(string partName, string refDes, Structured Array pinNames, Structured Array netNames) -> int
ScrGetPwrGndNetNameList() -> Structured Array
ScrGetRLCsBetweenNets(Structured Array netNameList, int includeR, int includeL, int includeC, Structured Array cktElems) -> int
ScrGetStackupLayerThickness(string layerName) -> string
ScrGetUniqueSimulationName(string simType) -> string
ScrImportAnf(string anfBstr) -> int
ScrImportCapacitorDeratingTable(string bDeratingTablePath, Structured Array errors) -> int
ScrImportComponentFile(string cmpBstr) -> int
ScrImportComponentMapFile(string fileName) -> int

ScrImportCpaSimulationOptions(string bSimSettingsXmlPath) -> int
ScrImportCpmOrPloc(string PLOCFileName, string partName, string refDes, string controlFileName) -> int
ScrImportEDB(string edbBstr) -> int
ScrImportElectromigrationSimSettings(string bxmlSettingsPath, Structured Array warnings, Structured Array errors) -> int
ScrImportGDSII(string fileName, string controlFileBstr) -> int
ScrImportIPC2581(string cvgBstr, string controlFileBstr, string pmapFileBstr) -> int
ScrImportLayerStackup(string fileName) -> int
ScrImportLayerStackupFile(string fileName) -> int
ScrImportLayerStackupXML(string bXmlStackupPath) -> int
ScrImportPmap(string fileName) -> int
ScrImportSIwaveSimulationOptions(string bSimSettingsXmlPath) -> int
ScrImportSettingsFile(string sefBstr) -> int
ScrImportXfl(string xflBstr) -> int
ScrInterpolateSpectrum(int interpolate)
ScrLogMessage(string msg)
ScrMergeConnectedNets(Structured Array inNetNameList) -> Structured Array
ScrNetGetLength(string netName, string sourceName, string sinkName) -> double
ScrNetIsDisjoint(string netName) -> int
ScrNetIsSelected(string netName) -> int
ScrNetSeparate(string netName)
ScrNetSetDummy(string netName)
ScrNetSetSelected(string netName, int select)
ScrPlaceCircuitElement(string givenElementName, string givenPartName, int circuitElementType, int posTermConnectionType, string posTermParam1, string posTermParam2, string posTermParam3, int refTermConnectionType, string refTermParam1, string refTermParam2, string refTermParam3, double capVal, double indVal, double resVal, double refZRe, double mag, double phase) -> short
ScrPlaceCircuitElementsToNearestRefPin(int circuitElementType, double val, string posPartName, string posUnitName, string posNetName, string refPartName, string refUnitName, string refNetName, Structured Array newElemList) -> int
ScrPlaceFreqDependentSrc(string givenElementName, int circuitElementType, int posTermConnectionType, string posTermParam1, string posTermParam2, string posTermParam3, int refTermConnectionType, string refTermParam1, string refTermParam2, string refTermParam3, string fileName) -> short
ScrPlacePortsAcrossRLCs(double zref, string rlcName, string rlcType, Structured Array portsCreated) -> int
ScrPlacePortsAtPinsOnSelectedNets(double zref, string refNetName, int connectToPinGroup, Structured Array portsCreated) -> int
ScrPlacePortsAtPinsOnSelectedNetsExcludePart(double zref, string refNetName, string partName, string refDes, int connectToPinGroup, Structured Array portsCreated) -> int
ScrPlacePortsAtPinsOnSelectedNetsPinNamesOut(double zref, string refNetName, int connectToPinGroup, Structured Array portsCreated, Structured Array posPinNames, Structured Array refPinNames) -> int
ScrPlotResModeVoltageDiff(string simName, [string layerA /*optional*/], [string layerB /*optional*/]) -> int
ScrPreserveNetsGivenInFile(string fileName)
ScrReadDCLoopResInfo(string simName, Structured Array sourceNames, Structured Array loopResData) -> int
ScrRestoreResonantModeMinFreq()
ScrRunDcSimulation(int reprocessGeom) -> short
ScrRunFarFieldSimulation() -> short
ScrRunFrequencySweepSimulation() -> short
ScrRunIcepakSimulation(string icepakSimName, string dcSimName) -> short
ScrRunInducedVoltageSimulation(double freq, double phi, double theta, double e0_phi, double e0_theta, double e0_magnitude) -> short
ScrRunNearFieldSimulation(double freq, int computeH) -> short
ScrRunResonantModeSimulation() -> short
ScrRunSimulation(string simType, string simName) -> short
ScrRunSpiceSubcktSimulation() -> short
ScrRunSyzParameterSimulation() -> short
ScrRunValidationCheck() -> Structured Array
ScrRunValidationCheckWithOptions(Structured Array optionArray, int simType) -> Structured Array
ScrSIwaveEnableReturnCurrentDistribution(int flag)
ScrSIwaveEnable_3D_DDM(int flag)
ScrSIwaveIncludeSourceParasitics(int flag)
ScrSIwaveSyzComputeExactDcPoint(int flag)
ScrSIwaveSyzEnforceCausality(int enforce)
ScrSIwaveSyzEnforcePassivity(int enforce)
ScrSanitizeLayout()
ScrSanitizeNets(Structured Array netNameList) -> int
ScrSaveProjectAs(string projname) -> int
ScrSaveSimulationMessages(string simName, string outFilePath) -> int
ScrSaveToPngFile(string fileName)
ScrSelectDcConnectedNets(Structured Array netNameList) -> int
ScrSelectNet(string netName, int select) -> int
ScrSelectNetsBetweenComponents(string partname1, string refDes1, string partname2, string refDes2) -> int
ScrSelectNetsBetweenNets(string net1, string net2) -> int
ScrSeparateDisjointNets() -> int
ScrSet4PtBwProfile(string bwModelName, double h1, double h2, double radius) -> int
ScrSet4ptBondwireParameters(string layerName, double radius, double h1, double h2, int flipped) -> int
ScrSet5PtBwProfile(string bwModelName, double h1, double h2, double radius, double alpha, double beta) -> int
ScrSet5ptBondwireParameters(string layerName, double radius, double h1, double h2, double alpha, double beta, int flipped) -> int

ScrSetAntiPadOnLayer(string padstackName, string layerName, string shape, string width, string height) -> int
ScrSetBwModel(Structured Array bwIndexArray, string bwModelName) -> int
ScrSetBwSuppLayer(Structured Array bwIndexArray, string suppLayerName) -> int
ScrSetBwTermLayer(Structured Array bwIndexArray, string termLayerName) -> int
ScrSetCapacitorDcBiasDeratingSim(string dcSimName) -> short
ScrSetCapacitorTemperatureDeratingSim(string icepakSimName) -> short
ScrSetConformalCoatLayers(int setConformalCoat) -> int
ScrSetCrossTalkThreshold(double xtalkInDb) -> int
ScrSetCrosstalkScanParameters(double FEXTWarningLevel, double FEXTViolationLevel, double NEXTWarningLevel, double NEXTViolationLevel, double freq, double minTraceLengthInMM) -> int
ScrSetDcMinPlaneAreaToMesh(string dcMinPlaneAreaToMesh)
ScrSetDcMinVoidAreaToMesh(string dcMinVoidAreaToMesh)
ScrSetDcPowerDataThresholds(double minThermCellSizeInUm, double minPwrLossPerCellInMilliwatts)
ScrSetDieElevation(string dieName, double elevation) -> int
ScrSetDieThickness(string dieName, double thickness) -> int
ScrSetEmiScannerParameters(string rulesFilename, int rulesProfileIndex, string tagsFilename) -> int
ScrSetEnergyErrorPercentInDcSimulation(double energyErrorPercent)
ScrSetExternalExcitations(string filePath)
ScrSetFarFieldSimOptions(double phiStart, double phiStop, int phiStepSize, double thetaStart, double thetaStop, int thetaStepSize) -> int
ScrSetFwsColFitOptions(int opt)
ScrSetFwsLaunchDesignerNexxim(int launch)
ScrSetFwsPassivityAlg(int alg)
ScrSetFwsPortRefZ(int renormalize, double refZ)
ScrSetFwsPzOptions(double fitError, int maxOrder)
ScrSetFwsSsfAlg(int alg)
ScrSetFwsSubcktFormat(int format)
ScrSetFwsUseCommonGround(int useCommonGround)
ScrSetHFSS3DLayoutSimOptions(string fileName) -> int
ScrSetHpcLicenseType(string licenseType) -> int
ScrSetHpcLicenseVendor(string licenseVendor) -> int
ScrSetIcepakBoardOutlineFidelity(double distInMM) -> short
ScrSetIcepakCabinetDimensions(double horizPadPercent, double vertAbovePadPercent, double vertBelowPadPercent) -> short
ScrSetIcepakComponentConfig(string fileName) -> int
ScrSetIcepakMeshingDetail(string meshLevel) -> short
ScrSetIcepakRepeat(int repeat, double dcPwrConvergencePercent) -> int
ScrSetIcepakSimReportImageHeight(int imgHeight) -> int
ScrSetIcepakTemperatureFile(string tempBstr) -> int
ScrSetIcepakThermalEnv(int convection, int forcedAir, double topOrAmbientTempC, string topOrOverallFlowDir, double topOrOverallFlowSpeed, double bottomTempC, string bottomFlowDir, double bottomFlowSpeed, double gravVecX, double gravVecY, double gravVecZ) -> short
ScrSetIdealGroundNodeInDcSimulation(string sourceName, int terminalToGround) -> int
ScrSetInducedVoltageMultipleIncidenceSpherical(double phi_start, double phi_stop, double phi_step, double theta_start, double theta_stop, double theta_step, double e0_phi, double e0_theta, int save_for_all_angles, double e0_magnitude) -> int
ScrSetInducedVoltageSingleIncidenceCartesian(double incidence_x, double incidence_y, double incidence_z, double e0_x, double e0_y, double e0_z, double e0_magnitude) -> int
ScrSetInducedVoltageSingleIncidenceSpherical(double phi, double theta, double e0_phi, double e0_theta, double e0_magnitude) -> int
ScrSetInfiniteGroundPlaneLocation(double elev) -> int
ScrSetLayerMaterial(string layerNameBstr, string layerMaterialBstr) -> int
ScrSetLayerThickness(string layerNameBstr, double thickness, int redraw) -> int
ScrSetLayerType(string layerName, int type)
ScrSetLayerVisibility(string layerNameBstr, int planeVis, int traceVis, int padVis, int viaVis, int cktElemVis) -> int
ScrSetLayoutLengthUnit(string layoutLenUnit) -> int
ScrSetLocalRefinementPercentInDcSimulation(double localRefinePercent)
ScrSetLogFreqPointDist(int flag)
ScrSetLowBondwireParameters(string layerName, double radius, double h1, double h2, double alpha, double beta, int flipped, string unitsBstr) -> int
ScrSetLowBwProfile(string bwModelName, double h1, double h2, double radius, double alpha, double beta, string unitsBstr) -> int
ScrSetMaxCoupledLines(int maxCoupledLines) -> int
ScrSetMaxRefinePassesInDcSimulation(int maxPasses)
ScrSetMeshBondwiresInDcSimulation(int meshBws)
ScrSetMeshViasInDcSimulation(int meshVias)
ScrSetMetalLayerFillerMaterial(string layerNameBstr, string layerFillerMaterialBstr) -> int
ScrSetMinCoupledTraceLength(double minCoupledTraceLen, string unitsBstr)
ScrSetMinCutoutArea(double minVoidArea, string unitsBstr)
ScrSetMinPadAreaToMesh(string minPadAreaToMesh)
ScrSetMinPlaneAreaToMesh(string minPlaneAreaToMesh)
ScrSetMinRefinePassesInDcSimulation(int minPasses)
ScrSetNearFieldMeshingFrequencyDefault() -> int
ScrSetNearFieldMeshingFrequencyPoints(Structured Array freqPoints) -> int
ScrSetNearFieldMeshingFrequencyRange(double startFreq, double stopFreq) -> int
ScrSetNearFieldPlotName(string plotNameBstr) -> int
ScrSetNearFieldSamplePointSpacing(double spacing) -> int

ScrSetNearFieldSolverOptions(int minAdaptPasses, int maxAdaptPasses, double gErrorTol) -> int
ScrSetNearFieldSurfaceOffset(double px, double nx, double py, double ny, double pz, double nz) -> int
ScrSetNumBondwireSidesInDcSimulation(int numBwSides)
ScrSetNumCpusToUse(short numCpus)
ScrSetNumModesToCompute(int numModes)
ScrSetNumViaSidesInDcSimulation(int numViaSides)
ScrSetOptionsFor3DModelExport(string fileName) -> int
ScrSetPadOnLayer(string padstackName, string layerName, string shape, string width, string height) -> int
ScrSetPadstackMaterial(string padstackNameBstr, string padstackMaterialBstr) -> int
ScrSetPadstackViaPlatingAbsolute(string padstackName, string viaPlatingAbsolute) -> int
ScrSetPadstackViaPlatingRatio(string padstackName, double viaPlatingRatio) -> int
ScrSetPlotAfterDcSimulation(int plot)
ScrSetPlotLayers(string plotLayer, string refLayer) -> short
ScrSetPlotSyzMag(int flag)
ScrSetPlotSyzPhase(int flag)
ScrSetPortNamingConvention(string namingConvention) -> int
ScrSetPortTerminalType(string bPortName, string bTerminalType) -> int
ScrSetPowerGroundNets(Structured Array netNames, int appendToCurrentNetsSelected) -> int
ScrSetPowerGroundNetsFromFile(string filePath, int appendToCurrentNetsSelected) -> int
ScrSetProjectModified(int p)
ScrSetPsiOptionsFromFile(string fileName) -> int
ScrSetPsiPortType(string portName, string porttype) -> int
ScrSetPsiSyzInterpOptions(int interp, int fastsweep, int adaptiveSamp, int enforceDC) -> int
ScrSetRLCValues(string partName, string r, string l, string c) -> int
ScrSetRefineBondwiresInDcSimulation(int refineBws)
ScrSetRefineDcSimulation(int refine)
ScrSetRefineViasInDcSimulation(int refineVias)
ScrSetRemoveCutoutsByArea(int p)
ScrSetResonantModeMaxFreq(double maxFreq)
ScrSetResonantModeMinFreq(double minFreq)
ScrSetSignalNets(Structured Array netNames, int appendToCurrentNetsSelected) -> int
ScrSetSignalNetsFromFile(string filePath, int appendToCurrentNetsSelected) -> int
ScrSetSimulationName(string simType, string simName) -> int
ScrSetSketchedBwProfile(string bwModelName, string filePath, double radius) -> int
ScrSetSketchedBwProfileFromArray(string bwModelName, string units, Structured Array bwPoints, double radius) -> int
ScrSetSnapLengthThreshold(string snapLengthThreshold)
ScrSetSolderballMaterial(string padstackName, string materialName) -> int
ScrSetSolderballParameters(string padstackName, int aboveStackup, double height, double radius) -> int
ScrSetSourceMagnitude(string refDes, string magnitude) -> int
ScrSetSparamModelSetup(string partName, Structured Array activeRefDesList, string fileName, string modelame, string refNet, Structured Array pinOrder) -> int
ScrSetSpiceModelSetup(string partName, Structured Array activeRefDesList, string fileName, string modelame, Structured Array pinOrder) -> int
ScrSetSpiceSubcktFormat(string format)
ScrSetStackupLayerThickness(string layerNameBstr, string thickness, int redraw) -> int
ScrSetStackupLayerThicknessUnit(string layerThicknessUnit) -> int
ScrSetSweepFreqRange(double minFreq, double maxFreq)
ScrSetSweepMaxFreq(double maxFreq)
ScrSetSweepMinFreq(double minFreq)
ScrSetSweepNumFreqPoints(int numPts)
ScrSetSyzInterpSweep(int p)
ScrSetSyzInterpSweepParams(double convergence, int maxInterpPts) -> int
ScrSetTDCrosstalkScanParameters(Structured Array partNameList, Structured Array refDesNameList, Structured Array pinNameList, Structured Array impedanceList, Structured Array typeList, Structured Array riseTimeList, Structured Array voltageList) -> int
ScrSetThermalPadOnLayer(string padstackName, string layerName, string shape, string width, string height) -> int
ScrSetTouchstoneExportFormatToDb(int exportInDb)
ScrSetTouchstonePortOrder(Structured Array portNamesList) -> int
ScrSetTouchstonePortRemapping(string portName, string namingConv) -> int
ScrSetTraceCouplingDistance(double traceCouplingDist, string unitsBstr)
ScrSetZ0ScanParameters(double impedance, double warningThreshold, double violationThreshold) -> int
ScrSetZ0ScanReportImageHeight(int imgHeight) -> int
ScrShowSelectedNetsOnly(int selOnly)
ScrTPADeleteNetsNotBeingSolvedFor() -> int
ScrTPADrawAutoPlaneExtents() -> int
ScrTPAExportSolution(string SolutionName, string outFileName, string outputType, int numberOfCells, int lossless, int couplingLimits, double capacitance, double inductance, double resistance, double conductance, int ignoreMutualResistance) -> int
ScrTPAExportSolutionVer2(string SolutionName, string outFileName, string outputType, int numberOfCells, int lossless, int couplingLimits, double capacitance, double inductance, double resistance, double conductance, double targetACFrequency, int ignoreMutualResistance) -> int
ScrTPAExportSpreadSheet(string SolutionName, string outFileName) -> int
ScrTPAGetExcitationCoord(string netName, string terminalName) -> Structured Array
ScrTPAGetNumSinks(string netName) -> int
ScrTPAGetNumSources(string netName) -> int

ScrTPAGetNumberOfPartitions() -> int
ScrTPAGetSinkNameList(string netName) -> Structured Array
ScrTPAGetSourceNameList(string netName) -> Structured Array
ScrTPAIgnoreBondwiresWhileCoupling(int ignoreBWs)
ScrTPAIgnoreDummyNets(int doIgnore)
ScrTPAIgnoreNonFunctionalPads(int doIgnore)
ScrTPAMergeDivergentBondwires(int doMerge)
ScrTPAPassBondwirePoints(int sizeIn, double bwPoints) -> int
ScrTPASelectNet(string netName, int select) -> int
ScrTPASetACResistanceFrequency(double freqVal)
ScrTPASetAllSignalNetsToSolve() -> int
ScrTPASetCuttingDistance(double cuttingDistance, string unitsBstr)
ScrTPASetDielectricExtent(double extent, string unitsBstr)
ScrTPASetExtendedExportOptions(string rlExportMethod, int includeGMat)
ScrTPASetIgnorePowerGround(int ignorePowerGround)
ScrTPASetInfiniteGroundExists(int InfiniteGroundExists)
ScrTPASetInfiniteGroundLocation(double InfiniteGroundLocation, string unitsBstr)
ScrTPASetLooselyCoupledNetsPercentage(double looselyCoupledNetsPercentage)
ScrTPASetMaximumEdgeLength(double MaximumEdgeLength)
ScrTPASetMaximumFrequency(double MaximumFrequency)
ScrTPASetMergeSinks(int mergeSinks)
ScrTPASetMergeSources(int mergeSources)
ScrTPASetModelReductionPasses(int ModelReductionPasses)
ScrTPASetMoldingCompoundMaterial(string materialName)
ScrTPASetMoldingCompoundThickness(double thickness, string unitsBstr)
ScrTPASetNumberOfProcesses(int numberOfProcesses)
ScrTPASetNumberOfThreadsPerPartition(int numberOfThreadsPerPartition)
ScrTPASetPadArcCoarseness(int PadArcCoarseness)
ScrTPASetPlaneArcCoarseness(int PlaneArcCoarseness)
ScrTPASetPowerGroundNet(string netName, int appendToCurrentNetsSelected) -> int
ScrTPASetPowerGroundNets(Structured Array netNames, int appendToCurrentNetsSelected) -> int
ScrTPASetPowerGroundNetsFromFile(string fileName, int appendToCurrentPwrGrndsSelected) -> int
ScrTPASetPreferredNetGroupSize(int preferredNetGroupSize)
ScrTPASetRefinementACRLMaxNumPasses(int numPasses)
ScrTPASetRefinementACRLPercentError(double percent)
ScrTPASetRefinementACRLPercentPerPass(double percent)
ScrTPASetRefinementCGMaxNumPasses(int numPasses)
ScrTPASetRefinementCGPercentError(double percent)
ScrTPASetRefinementCGPercentPerPass(double percent)
ScrTPASetRefinementMethod(string methodName)
ScrTPASetRefinementType(int RefinementType)
ScrTPASetRemoveLooselyCoupledNets(int removeLooselyCoupledNets)
ScrTPASetSignalNetToSolve(string netName, int appendToCurrentNetsSelected) -> int
ScrTPASetSignalNetsToSolve(Structured Array netNames, int appendToCurrentNetsSelected) -> int
ScrTPASetSignalNetsToSolveFromFile(string fileName, int appendToCurrentNetsSelected) -> int
ScrTPASetSignalRiseTime(double SignalRiseTime)
ScrTPASetSolutionMethod(int SolutionMethod)
ScrTPASetSolutionMode(int SolutionMode, int FloatingGeometryMode)
ScrTPASetSolutionName(string SolutionName)
ScrTPASetSolveSelectedNetsOnly(int solveSelectedNetsOnly)
ScrTPASetTargetFreqForExportSolution(double targetACFrequency)
ScrTPASetTraceArcCoarseness(int TraceArcCoarseness)
ScrTPASetUseZCuttingDistance(int useZCuttingDistance)
ScrTPASetXYCouplingDistance(double xyCouplingDistance, string unitsBstr)
ScrTPASetZCouplingDistance(double zCouplingDistance, string unitsBstr)
ScrTPASetZCuttingDistance(double zCuttingDistance, string unitsBstr)
ScrTPASolve()
ScrTPASolveForParameters(int solveForCapacitance, int solveForDCResistance, int solveForDCResistanceInductance, int solveForACResistanceInductance) -> string
ScrTPATestArray(Structured Array pArray) -> int
ScrUnselectAll() -> int
ScrUpdateComponentTree()
ScrUseIcepakTemperatureDataInDc(int use)
ScrUseTouchstonePortRemapping(int remapNames) -> int
SetActiveDesign(string designName) -> IDispatch
SimulateLink(string configStr, IDispatch cb, [string linkType /*optional*/], [string msg /*optional*/]) -> int
Solve(string solnName) -> string
StopSimLink(int simID, int abort)
ValidateLink(string linkType, string dataToValidate, string msg) -> int