CDE Download流程：

## 1，CDE下载到NT

Cli命令：admin software-mngt cdeprof download 135.242.96.160:MSR2JC43.001

1，CdeProfileMgntNt设置从cli获取到的下载ip和文件名

**CdeSnmp**.cc:

SetvoiceCDETarDldServerID

|-->return CdeConfig::getInstance().setCDEDownloadServer(\*entry);

SetvoiceCDETarDldPath:

|-->return CdeConfig::getInstance().setCDEDownloadPackagePath(\*entry);

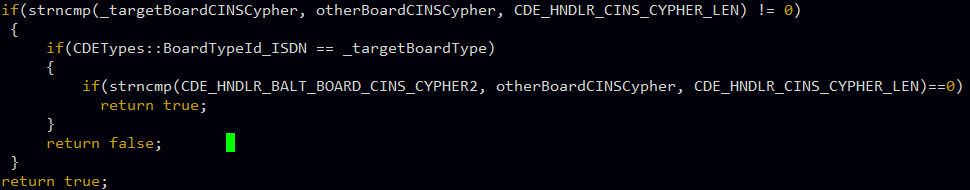
| |-->CDEHandler::getInstance().checkCDEFileName(tmpDownloadPackagePath)

| | |-->CDEFileHndlr::decodeCDEFileName(cdeFileName,cdeFileCINSCypher,cdeFileProfileId, cdeFileISAMVReleaseNumber,cdeFileVersionNumber))

| | |-->checkCINSCypher(boardTypeId, cdeFileCINSCypher)

| | | |-->const CDEFileHndlr\* cdeFileHandlerPtr=getCDEFileHandler(boardTypeId);

| | | |--> cdeFileHandlerPtr->isCINSCypherEqual(cdeFileCINSCypher);

| | | | |--> 

| |-->getCDETarFileNameFromPath(tmpDownloadPackagePath);

| |-->startDownload((void\*)&cdeDownloadPackagePath)

| | |-->transferSession=fileTransferAccess(TFTP\_GET,\_downloadPackageName, \_localDownloadPackageName,\_downloadServerAddress,CDEConfig::endDownloadCallback);

| | | |-->CDEConfig::getInstance().endDownload(session\_id,result,result\_info);

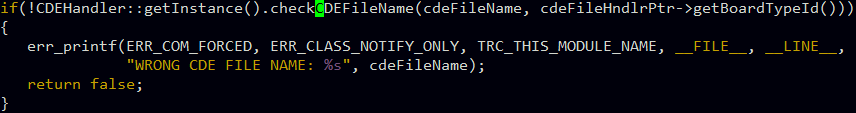
| | | | |-->xt\_start(utar\_tid,T\_PREEMPT,CDEConfig::getInstance().untarCDETask,NULL);

| | | | | |-->result=CDEConfig::getInstance().untarCDEPackage (CDE\_HNDLR\_LOCAL\_UNTAR\_DIR,CDEConfig::getInstance().\_localDownloadPackageName);

| | | | | |-->errorCode=CDEHandler::getInstance().buildCDEPackageHndlr (CDE\_HNDLR\_LOCAL\_UNTAR\_DIR,newCDEPackageHandler);

| | | | | | |-->addCDEFile2CDEPackageHndlr(sourceDirectoryName, newCDEPackageHandler,(char const\*)fileName)

| | | | | | | |-->

;

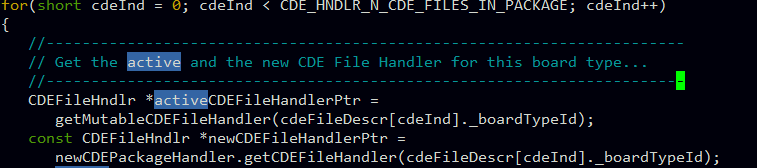
## 2，active CDE

CDEConfig::activeCDE()

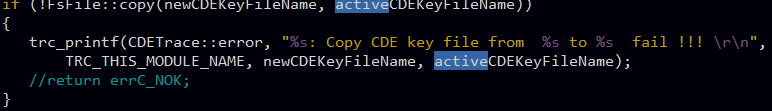
|-->newCDEPackageHandler=CDEHandler::getInstance().getCDEPackageHandler (CDE\_NEW\_PACKAGE)

|-->errorCode=CDEHandler::getInstance().activateCDEPackage(\*newCDEPackageHandler)

| |-->FsDirectory::exist(CDE\_HNDLR\_LOCAL\_ACTIVE\_DIR);

| |--> 

| |--> if(!activeCDEFileHandlerPtr->replaceCDEFile(\*newCDEFileHandlerPtr))



| |--> return transferCDEProf2LSM(false); wile循环所有的pot

| | |--> CdeTransWrapper::getCdeTransWrapper()->activateCdeTrans(slotId,boardType, activeCDEFileName,snmpOrIocm);

| | | | |--> if (true != CDEHandler::getInstance().cdePackageHmac(CDETypes :: CDE\_ACTIVE\_PACKAGE))

| | | | | |-->

| | | | |-->retVal=initCdeTrans(boardType,slotId,isIocmTask);

| | | | |-->retVal=compCde(boardType,slotId,isIocmTask);

| | | | | |-->status=cdeLsmToNtIfc.getCdeVersion(iocm\_version);

| | | | | |-->status= cdeLsmToNtIfc.getCdeProfileId(iocm\_info);

| | | | | |-->status= cdeLsmToNtIfc.getCdeRelease(iocm\_release);

| | | | |-->retVal=preCdeTrans(boardType,cdeFileName);

| | | | |-->status= cdeLsmToNtIfc.transferCde(iocm\_type,True);

| | | | |-->|--> retCode = iocmGetCdePiece( iocm\_cdetype, iocm\_index, iocm\_info, pieceLength);

| | | | |-->|-->retCode = writeCdePiece(cde\_type, local\_index, iocm\_info, pieceLength);

| | | | |-->|-->retCode = iocmGetCdeChecksum( iocm\_cdetype, checksum);

| | | | |-->|-->retCode = checkCdeFile(cde\_type, totalSize, checksum);

| | | | |-->|--> retCode = iocmReportCdeValidity(iocm\_index, True);

| | | | |-->|--> retCode = iocmGetCdeVersion( iocm\_cdetype, iocm\_index, iocm\_version);

| | | | |-->|-->retCode = writeCdeVersion(cde\_type,iocm\_version);

| | | | |-->|-->retCode = iocmGetCdeProfileId(iocm\_cdetype, iocm\_index, iocm\_profileid);

| | | | |-->|-->retCode = writeCdeProfileId(cde\_type, iocm\_profileid);

| | | | |-->|-->retCode = iocmGetCdeRelease( iocm\_cdetype, iocm\_index, iocm\_release);

| | | | |-->|-->retCode = writeCdeRelease(cde\_type,iocm\_release);

## 3，LT上CDE文件读取

1，AccessNeSipw初始化时，会初始化SipwCdeHandler，硬编码部分cde的参数

AccessNeZIPS::initSipwCdeHandler()

|-->pSipwCdeHandler = new SipwCdeHandler ();

| |-->Cde\_setDefaultCfg ();

| | |-->

2，AccessNeSipw初始化initCde

AccessNeZIPS::initCde();

|-->readCdeFile();

| |--> retCode = SipwParseCdeData();

| | |--> SipwInitCdeParam();

| | |--> pInstance = CdeContainer::getCdeContainer();

| | | |--> CdeCobjP\_m->ParseFile();

| | | | |-->while (getLine(&textP, line, CONTAINER\_CDE\_MAX\_LINE\_SIZE, &lineLen))

| | | | |-->if (sscanf(line, "%s",TokenTemp) != 1)

| | | | | |-->if (isKeyNameExist(TokenTemp))

//首先判断CDE参数，是否在Token\_Array\_Link数组中已经存在，如果存在就把值加在以前已经有的值的后面

| | | | | |-->else if (j < MAX\_TOKEN\_ID\_NUMBER)

//如果CDE参数不在数组中，就在Token\_Array\_Link数组新加入

| | | |-->while (i < len) do{

| | | |-->rc = pInstance->getKeyNameItem(token\_table[i].initialToken,&value[tokenLen + 1], pNode);

| | | |-->rc = token\_table[i].fn(value);

如果有invaild的参数，上报alarm到NT

| |-->Eqpt::LogSlotId ownSlotId = EqptCore::OwnEqptIdentification::getOwnSlotId();

| |-->CdeProfileMgntLsmInterface::getCdeProfileMgntLsmInterface()->reportAlarm(ownSlotId, false);

| | |-->

NatR37上有另一种引用：ErrCodeC SipwCdeHandler::readCDEdata()

|-->readCdeFile();

| |-->retCode = (SipwCdeHandler::getSipwCdeHandler())->readCDEdata();

| | |-->