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| --- | --- |
| PSD Version Revision |  |
| Document Path |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirements | Values | Feasibility  (yes/no/yes, but with issues) | Remarks | | | | |
|  |  | HWD | CAD | ENGG | SAD | SWD |  |
| Set Camera Time zone |  |  |  |  |  | Yes |  |

# Change Log

|  |  |  |  |
| --- | --- | --- | --- |
| Date of Change | Change Log/Details | Author | Approved By |
| 15-March-2018 | Revision: 00 Initial document | Suraj Dhande |  |
|  |  |  |  |

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# Basic Information and Steps

Currently As per the Requirement,we add provision that All added cameras (Added Through Onvif) time will be Synchronize with Device Time. Camera Date Time will be changed Camera added First time, Camera get Online ,Set (change) Device Date & Time manually, Device time sync with NTP server configured in Device.

Now as improvement we have to Set timezone to camera same as Configured in Device.

**Function Need to be Modify :**

Date and time we reading through GetLocalTimeInBroken need to be change for reading current date time in setCameraDateTime.

**Modified Function Code :**

BOOL **GetLocalTimeInBroken**(**struct** tm \* localTimeInTmStruct ,UINT8 timeZoneIndx ,CHAR \* tmzString)

{

BOOL retValue = *FAIL*;

time\_t localTimeInSec; //local time in time\_t

**struct** tm tempStruct; //temporary structure

**if**(GetLocalTimeInSecCam(&localTimeInSec) == *SUCCESS*)

{

//convert above time in broken down time structure

**if**(**gmtime\_r**(&localTimeInSec, &tempStruct) != NULL)

{

//copy temporary structure to output structure

MEM\_CPY(localTimeInTmStruct, &tempStruct, **sizeof**(**struct** tm));

//add century to the years

localTimeInTmStruct->tm\_year = (tempStruct.tm\_year + START\_YEAR);

retValue = *SUCCESS*;

}

}

**strcpy**(tmzString,**tz\_str**[timeZoneIndx-1]);

**return** retValue;

}

BOOL **GetLocalTimeInSecCam**(time\_t \* currLocalTime)

{

time\_t tempTime;

BOOL retValue = *FAIL*;

//find the System Time

**if**(**time**(&tempTime) != NILL)

{

**// TIMEZONE Calculation should be Removed**

\*currLocalTime = tempTime;

retValue = *SUCCESS*;

} **return** retValue;

}

# Feasibility Result:

1. SET\_SYSTEM\_DATE\_AND\_TIME\_t ns1\_\_SetSystemDateAndTime;
2. ns1\_\_SetSystemDateAndTime.TimeZone.TZ
3. TZ - Timezone String

|  |  |
| --- | --- |
| Brand | Result |
| **Matrix Comsec** | All Timezone and Date&time set properly with Following supported Timezone Strings through ONVIF.  Supported TZ (Timezone ) String in Matrix Comsec.  **static** **const** **char** \***TZ**[MAX\_TIMEZONE]=  {  "DatelineStandardTime12",  "SamoaStandardTime11",  "HawaiianStandardTime10",  "AlaskanStandardTime9",  "PacificStandardTime8",  "USMountainStandardTime7",  "<MexicoStandardTime2>7",  "MountainStandardTime7",  "CentralAmericaStandardTime6",  "CentralStandardTime6",  "MexicoStandardTime6",  "CanadaCentralStandardTime6",  "SAPacificStandardTime5",  "EasternStandardTime5",  "USEasternStandardTime5",  "AtlanticStandardTime4",  "SAWesternStandardTime4",  "PacificSAStandardTime4",  "NewfoundlandStandardTime3:30",  "ESouthAmericaStandardTime3",  "SAEasternStandardTime3",  "GreenlandStandardTime3",  "<Mid-AtlanticStandardTime>2",  "AzoresStandardTime1",  "CapeVerdeStandardTime1",  "GreenwichStandardTime0",  "GMTStandardTime0",  "WEuropeStandardTime-1" ,  "CentralEuropeStandardTime-1",  "RomanceStandardTime-1",  "CentralEuropeanStandardTime-1" ,  "WCentralAfricaStandardTime-1" ,  "GTBStandardTime-2",  "EEuropeStandardTime-2" ,  "EgyptStandardTime-2",  "SouthAfricaStandardTime-2",  "FLEStandardTime-2" ,  "IsraelStandardTime-2",  "ArabicStandardTime-3",  "ArabStandardTime-3",  "RussianStandardTime-3",  "EAfricaStandardTime-3",  "IranStandardTime-3:30",  "ArabianStandardTime-4" ,  "CaucasusStandardTime-4",  "AfghanistanStandardTime-4:30",  "EkaterinburgStandardTime-5",  "WestAsiaStandardTime-5",  "IndiaStandardTime-5:30" ,  "NepalStandardTime-5:45",  "NCentralAsiaStandardTime-6",  "CentralAsiaStandardTime-6",  "SriLankaStandardTime-6",  "MyanmarStandardTime-6:30",  "SEAsiaStandardTime-7",  "NorthAsiaStandardTime-7",  "ChinaStandardTime-8",  "NorthAsiaEastStandardTime-8",  "SingaporeStandardTime-8",  "WAustraliaStandardTime-8",  "TaipeiStandardTime-8",  "TokyoStandardTime-9",  "KoreaStandardTime-9",  "YakutskStandardTime-9" ,  "CenAustraliaStandardTime-9:30" ,  "AUSCentralStandardTime-9:30",  "EAustraliaStandardTime-10" ,  "AUSEasternStandardTime-10" ,  "WestPacificStandardTime-10",  "TasmaniaStandardTime-10",  "VladivostokStandardTime-10",  "CentralPacificStandardTime-11",  "NewZealandStandardTime-12" ,  "FijiStandardTime-12",  "TongaStandardTime-13"  }; |
| For Other Brands  **UNIVIEW**  **PANASONIC**  **HONEYWELL** | Common TZ string Database need to be find supported for all Brands.  UNIVIEW – IPC2222SR5-UPF60-B  PANASONIC – WV-SC385  HONEYWELL - HBD3PR1  - Tried with different Time zone strings Suggested By POSIX standards For generating common Database.  - Verified Tz in Responce for **getCameraDateTime** in structure **\_tds\_\_GetSystemDateAndTimeResponse.** |