

# lamaLibrary: DT to string

System time convert to string date / time / date\_and\_time format.

```

FUNCTION_BLOCK "dtToStringDateAndTime"
{ S7_Optimized_Access := 'TRUE' }
VERSION : 0.1
  VAR
    timeDT : DATE_AND_TIME;
    timeDTL {InstructionName := 'DTL'; LibVersion := '1.0'} : DTL;
    stampDate : STRING;
    stampTime : STRING;
    stampDT : STRING;
    tempStr : STRING;
    retVal : INT;
  END_VAR

BEGIN
  // lamaPLC source: https://lamaplc.com/doku.php?id=lamalib:dt_to_string

  // read local system time
  #retVal := RD_LOC_T(#timeDT);
  // convert it to dtl struct
  #timeDTL := DT_TO_DTL(#timeDT);

  // select year
  #stampDate := UINT_TO_STRING(#timeDTL.YEAR);
  #stampDate := DELETE(IN := #stampDate, L := 1, P := 1);
  #stampDate := CONCAT(IN1 := #stampDate, IN2 := '-');

  // select month
  #tempStr := USINT_TO_STRING(#timeDTL.MONTH);
  #tempStr := DELETE(IN := #tempStr, L := 1, P := 1);
  IF #timeDTL.MONTH < 10 THEN // if need it to fill with a zero
    #stampDate := CONCAT(IN1 := #stampDate, IN2 := '0');
  END_IF;
  #stampDate := CONCAT(IN1 := #stampDate, IN2 := #tempStr);
  #stampDate := CONCAT(IN1 := #stampDate, IN2 := '-');

  // select day
  #tempStr := USINT_TO_STRING(#timeDTL.DAY);
  #tempStr := DELETE(IN := #tempStr, L := 1, P := 1);
  IF #timeDTL.DAY < 10 THEN // if need it to fill with a zero
    #stampDate := CONCAT(IN1 := #stampDate, IN2 := '0');
  END_IF;
  #stampDate := CONCAT(IN1 := #stampDate, IN2 := #tempStr);

```

```

// select hour
#stampTime := UINT_TO_STRING(#timeDTL.HOUR);
#stampTime := DELETE(IN := #stampTime, L := 1, P := 1);
IF #timeDTL.HOUR < 10 THEN // if need it to fill with a zero
    #stampTime := CONCAT(IN1 := '0', IN2 := #stampTime);
END_IF;
#stampTime := CONCAT(IN1 := #stampTime, IN2 := '-');

// select minute
#tempStr := UINT_TO_STRING(#timeDTL.MINUTE);
#tempStr := DELETE(IN := #tempStr, L := 1, P := 1);
IF #timeDTL.MINUTE < 10 THEN // if need it to fill with a zero
    #tempStr := CONCAT(IN1 := '0', IN2 := #tempStr);
END_IF;
#stampTime := CONCAT(IN1 := #stampTime, IN2 := #tempStr);
#stampTime := CONCAT(IN1 := #stampTime, IN2 := '-');

// select second
#tempStr := UINT_TO_STRING(#timeDTL.SECOND);
#tempStr := DELETE(IN := #tempStr, L := 1, P := 1);
IF #timeDTL.SECOND < 10 THEN // if need it to fill with a zero
    #tempStr := CONCAT(IN1 := '0', IN2 := #tempStr);
END_IF;
#stampTime := CONCAT(IN1 := #stampTime, IN2 := #tempStr);

// generate dt
#stampDT := #stampDate;
#stampDT := CONCAT(IN1 := #stampDT, IN2 := ':');
#stampDT := CONCAT(IN1 := #stampDT, IN2 := #stampTime);

```

END\_FUNCTION\_BLOCK



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