

How_to_show_file_download_progress

The following article shows how to show the progress of a file being downloaded using the HTTP Client.

Many times we would like to show the amount or the percentage of file that has been downloaded during the transfer. This can be achieved in the **MHFRunL** function.

Reviewer Approved



Get the total file size of the file being downloaded

Use the case **EGotResponseHeaders** for this

```
RHTTPResponse resp = aTransaction.Response();
RHTTPHeaders headers = resp.GetHeaderCollection();
RStringPool string_pool = iSession.StringPool();
RStringF contLength = string_pool.StringF(HTTP::EContentLength, RHTTPSession::GetTable());

THTTPHdrVal tempHdrVal;
TInt err = headers.GetField(contLength, 0, tempHdrVal);
if(err == KErrNone)
{
    iRemoteFileSize = tempHdrVal.Int();
}
else
{
    iRemoteFileSize = 0;
}
```

here `iRemoteFileSize` is the total file size of the file being downloaded. If for some reason the file size cannot be acquired set it to zero, in this case progress cannot be shown.

Show progress

Use the case **EGotResponseBodyData** for this

```
MHTTPDataSupplier* dataSupplier = aTransaction.Response().Body();
TPtrC8 ptr;
dataSupplier->GetNextDataPart(ptr);

TInt kb=0;
TBuf<100> str;

iBytes = iBytes + ptr.Length();
kb=iBytes;
if(iRemoteFileSize > 0 && kb > 1024) // show percentage
{
    TInt kb((kb*100)/iRemoteFileSize);
    (KFormat, "%d %% Recieved");
    Format(KFormat, kb);
    ->SetNextL(str);
}
else
{
    if(kb < 1024)
    {
        (KFormat, "Receiving File : %d Bytes");//show bytes
```

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```
Format (KFormat, kb);  
->SetTextL (siDlg)  
}  
else  
{  
    = (TInt) kb/1000;  
    (KFormat, "Receiving File : %d KB"); // show in kb  
    Format (KFormat, kb);  
    ->SetTextL (siDlg)  
}  
}
```

here iDlg (CAknWaitDialog) is used to show the progress of the download.