



## Topic: web and Application Software solution

B/S : Web, FTP and led data center

C/S : Application software, FTP and LED data center

- Traits:**
1. Reducing coupling work and make the customized development easier for customer.
  2. With independent system parts, it's easier to maintain and will be more stable and strong.
  3. Using FTP to save files, easier to management. Moreover, led controller supports breakpoint resume from FTP, which will save the data traffic.
  4. The system will manage all users and DTU, online/offline status, keep heartbeat detection and so on; will solve abnormal problems during communication automatically, to enhance the reliability of communication; will realize the wire, wireless GPRS and 3G mixed mode network.

Pay attention to red words: red parts should be developed by customer, Xixun engineers will do the blue parts work.

### How to realize this solution

The system has three parts:

- part1: make program and manage issue (web or Application software);
- part2: Build up FTP, LED controller will capture program from FTP: only need to build ftp service on server, no need to do customized development for communication modem.
- part3: Build up led data center server

### Interfaces details of Part 1 and led controller:

1. Convert the program content in program database into XML file format; please refer to xixunled.xsd and boilerplate Sample.xml;
2. When making program, please use the formats that led controller supports; when editing text program, please convert text into image format.  
Led controller supports format as following:  
Single frame image: supports bmp, jpeg  
Video: support MP4  
Animation: support GIF
3. Create Negotiation file, must create this negotiation file before asking led controller to capture program from FTP. please refer to "Negotiation Table file Instruction.doc"
4. Manage led controller, please refer to "manage led controller terminal side interface.doc".