JOINT REPORT OF: **THE CLERK and**
                                     COUNCILLORS BENJAMIN GIBBS AND KEVIN GIBBS
REPORT TO: **PARISH COUNCIL**
DATE OF MEETING: **3 AUGUST 2016**
SUBJECT: **WI-FI AT VILLAGE HALL**

1 INTRODUCTION

The Parish Council has expressed a wish to install a Broadband/Wi-Fi facility at the village hall and the Clerk was asked to explore options.

At last meeting, the Clerk informed the Council that she did not have the technical expertise to carry out the necessary research to present a coherent report to the Council. Since that time, she has been working with both Councillor Benjamin Gibbs and Councillor Kevin Gibbs, and the following is for the Council's consideration.

2 POTENTIAL PROVIDER

The Clerk has made contact with a company called KCOM which runs WiFi over the BT infrastructure and has a good after-sales support service.

The information from KCOM is as follows:

• New landline to be provided with Broadband over the line	£99.00
• ADSL or Fibre Broadband can be provided. Fibre is recommended which has a speed of 54 MB down and 14 MB up	£45.00 per month

The Council will need to consider the following details:

- Wi-Fi points to be provided at key places in the Village Hall to support guest networks. NetGear wireless points are suggested. These can be managed remotely via the NetGear Business Centre.
- The location of the wireless points would probably be in the Meeting Room and one in the main hall.
- Councillor Gibbs suggests two WNDAP360-ProSafe, or two WNDAP 660-Prosafe wireless points.
- It may be necessary to run PoE (Power over Ethernet) to them if there are no power sockets, as well as requiring a Cat5 (Network cable) running around the building.
- Routers to be housed in secure rack/container to ensure that they are tamper-free.

3 COSTS

It is expected that this will be funded from within the £4,000 which has been allocated for re-branding of the website.

Hardware which can be sourced separately by the Parish Council:

Netgear run a managed service, for Wi-Fi hotspots, called net gear [business centre](#) which would be idea for the village hall as there is no permanent on-site presence. The cost of this is around £50/60 per access point per year – there will be two access points: one in the main hall and one in the meeting room.

Two access points are required: The WNDAP360 is recommended cost-wise. It is one of the less expensive ones and can be purchased from Amazon with £100 discount; currently selling at £145.00.

In addition, one switch is required and the size depends on how many data cables are used. A Netgear FS108PEU ProSAFE 8 Port 10/100 is currently selling for £46 and this supports POE (Power over the Ethernet) which means that the Wi-Fi points do not need to have power attached to them.

The Council might wish to consider increasing the bandwidth but this can be carried out at a later date.

Running Costs:

Once installed, the running costs will be approximately £100/120 per year for Cloud management of the WiFi Network.

There will be a monthly cost from either KCOM or BT, or other provider.

The hardware should have a lifespan of 5 years before it is necessary to replace with newer models and to take advantage of technological advances.

4   SPECIFICATION FOR ELECTRICIAN

An appropriately qualified electrician will need to install the system, and Councillor B Gibbs has provided the following detailed specification. This will be dependent on whether the existing phone line can be used and whether it can be re-contracted or a new line required.

To be mounted at ceiling level near to current phone.

- A 6U/9U rack with lockable door, including 12 port patch panel. (6U is the min, but it can be bigger if it is more economical)
- 4 * 13 Amp Sockets (rack/switch/router/spare)
- 12 Patch Cables

Data cables:
- Two data cables, running from the rack, to somewhere central in the main hall, maybe above the main doors mounted just below ceiling level. (we can be flexible where this is, for ease as long as it is high up so it can't be tampered with.)
- Two data cables running from the rack to the meeting room upstairs about head height, location can be flexible again.
- Mounting of two WIFI routers (we will source) on the wall next to the façade plates in the main hall and in the meeting room.
- All data cables will need to be connected to the port patch panel at one end and a RJ45 façade plate at the other, and to be covered with trunking.

Additional cost required to complete the following; this should not be too expensive future-proof the hall (data wise). This would require running additional cables into the core trunking which is already being laid for the cables.

- Additional 2 data cables running to the upstairs meeting room, to be put knee-height near where the Chairman sits for PC meetings.
- Additional 2 data cables running to the upstairs meeting room, to be put knee-height near the door.
- Additional 2 data cables running into the main hall to be at knee -eight.
- Additional 2 data cables running into the lounge to be a knee-height near the door.

With data cables the cost is normally the time required to put in the trunking and laying the cables. Running additional cables down the same core trunking should not cost much more, percentage wise, but gives more advantages for the future. If this were to be carried out at a later date, it would be a more extensive project.

Setting-up. Councillor B Gibbs will be able to set up the software as this is his area of expertise and will save costs for the Parish Council.

5 PARISH COUNCIL DECISION

The Parish Council is invited to -

(a) Consider if arrangements should be made to proceed with installation of Wi-Fi in the Village Hall;

(b) Ask the Communications Committee (subject to the Council's agreement to establish such a committee) to give further consideration to this matter.

Carol Jones   Clerk
Benjamin Gibbs   Councillor
Kevin Gibbs   Councillor
July 2016