**广东省人民医院网络设备维保服务采购项目需求**

一、项目背景

广东省人民医院数据中心及骨干节点核心网络设备主要部署在广州第一中心机房、第二中心机房、办公楼、行政楼、主体楼、伟伦楼、餐厅楼、高压氧楼、科教楼、综合楼、老干楼、东一号楼、东二号楼、东三号楼、主体楼、英东楼、惠福分院、惠福西门诊、平洲门诊、白云路广湾18大厦、91号大院，网络设备433台，其中上架网络设备共397台：内网核心网络设备4台，内网汇聚层网络设备18台，外网核心网络设备1台，外网汇聚层网络设备9台，接入层365台。网络在 IT 系统中作为数据的载体，保证医疗业务数据向每个角落的延伸和可达性，网络的中断将直接影响医疗业务的正常运行，因此网络的畅通是医疗业务正常进行不可或缺的必要条件之一

同时信息安全管理的难度越来越高、外界安全形势非常严峻，存在比较大的安全风险，因此需要通过购买核心网络设备维保、运维监控系统服务，以保障各类信息安全设备正常运作。通过运维监控系统实现及时发现安全隐患，发生故障时，能得到及时处理，将事件影响降到最低。

二、设备维护内容

|  |  |  |
| --- | --- | --- |
| **序号** | **服务类型** | **服务内容说明** |
| 1 | 交换设备新件先行保修服务（原厂保修期内设备） | 1. 维护服务期间，直接与原厂商联系和协调，由提供Extreme、华为、H3C公司的新件先行保修服务。任何保修期内的交换机设备发生故障由公司提供新件替换保修服务，即第二天响应，2-5个工作日内新件到用户现场，收到新件的15天内由服务商负责寄回坏件，不再另外收取维修费用。 2. 提供网络基础架构规划管理及调整、网络设备配置管理、网络性能优化、新增网络接入、网络故障处理等服务。 |
| 2 | 交换设备应急备件服务 | 准备充足的相应备件为系统设备故障时提供应急替代，直到Extreme、华为、H3C公司提供的新件更换完成，系统恢复原状。 |
| 3 | 原厂商已不维修的交换机设备及非Extreme产品的应急备件服务（已过保设备） | 准备充足的相应备件为系统设备故障时提供应急替代，直到坏件维修好后再撤换。对坏件提供有偿维修。 |
| 4 | 主动预防检查 | 安排具有Extreme网络系统认证的工程师对网络系统进行定期主动巡检健康检查，其中接入设备机房两周一次，核心交换机房和汇聚交换机房一周一次，惠福西分院一周一次。并出具月度巡检报告。 |
| 5 | 日常值守维护服务 | 提供1名具有Extreme网络系统认证工程师负责院方本部日常的网络系统值守维护，配合院方处理日常的网络故障；提供1名工程师每周三次到惠福西路分院进行日常的网络系统值守维护。 |
| 6 | 网络性能检测服务 | 在维护服务期间，提供对线路、设备、带宽等整体网络的传输质量开展2次专业检测服务（半年1次）；提供检测报告。 |

三、服务响应级别

|  |  |  |  |
| --- | --- | --- | --- |
| **项目** | **关键控制点** | **衡量内容** | **目标** |
| 服务响应时间 | 现场响应能力 | 工作时间 | 7x24（0:00AM--23：59PM） |
| 紧急故障（系统瘫痪） | 响应时间 | <=1小时 |
| 严重故障（系统性能受损） | 响应时间 | <=2 小时 |
| 一般故障（系统运行正常） | 响应时间 | <=4小时 |
| 服务周期 | 硬件故障恢复 | 工作时间 | 7x24（0:00AM--23：59PM） |
| 紧急故障（系统瘫痪） | 硬件故障恢复周期 | <=24小时  超过24小时提供配件备机 |
| 严重故障（系统性能受损） | 硬件故障恢复周期 | <=12小时 |
| 一般故障（系统运行正常） | 硬件故障恢复周期 | <=6小时 |

四、服务方式：

1. 热线服务：为甲方提供热线支持（包括电话咨询、提供驱动程序、技术参数等）。
2. 2）现场维护：将前往甲方驻地诊断维护，乙方将提供一切必要的劳务、零件或材料，以使甲方签约设备正常运作。如需更换零件，则由乙方提供，更换下来的旧零件归乙方所有。此项服务包括对产品运作异常和故障进行检查并加以修理。除附件二中另有说明者外，此项服务乙方不另收费用。在寻求永久的解决办法之时，可能会提供暂时的应急措施供用户采用。

五、服务要求

1. 乙方在合同期内安排具有Extreme网络系统认证的工程师对网络系统进行定期主动巡检健康检查，其中接入设备机房两周一次，核心交换机房和汇聚交换机房一周一次，惠福西分院一周一次。并出具月度巡检报告。
2. 乙方需记录维护服务内容、时间。
3. 在协议期内、乙方应备有充足的备件供紧急维修用，如果备件需另行付费，乙方应保证提供给甲方的价格不得高于市场同期价格。

六、工程师要求

1. 为保障甲方网络系统的正常运行，乙方保证采用最有效的维护管理方式，选派合格的系统维护人员，提供优质的系统维护服务。
2. 乙方需提供系统维护服务的人力资源名单及工作职责安排，为保持维护人员的稳定性，乙方在项目过程中不得随意更换现场人员，如确有需要更换的，必须事先得到甲方的认可。
3. 为保障服务的及时和服务质量，乙方派往甲方的现场维护工程师应人数足够，甲方将派出工程师，协助乙方工作。
4. 乙方技术人员应按照甲方作息时间计算工作日（即8:00-12:00，13:00-17:30，每周5日），元旦、春节等节假日放假时间则参照国家的相关公布。对于甲方的重大故障（如主干网络瘫痪等）须按照全天候24小时处理。
5. 乙方的相关人员应当严格遵守甲方的有关规章制度，作好信息安全和信息保密工作，不泄露、不扩散甲方的数据和机密。
6. 乙方在提供维护服务前有义务再次确认甲方数据备份情况。

附件：设备清单

**1）已出原厂维保期的设备清单 （提供备件进行应急维修）**

|  |  |  |
| --- | --- | --- |
| 序号 | 品牌 | 型号 |
| 1 | Extreme | x430-48t |
| 2 | Extreme | x430-48t |
| 3 | Extreme | x430-48t |
| 4 | Extreme | x430-48t |
| 5 | Extreme | x430-48t |
| 6 | Extreme | x430-48t |
| 7 | Extreme | x430-48t |
| 8 | Extreme | x430-48t |
| 9 | Cisco | Calalyst 2950 |
| 10 | Extreme | BD8810 |
| 11 | Extreme | BD8810 |
| 12 | Extreme | X150-24t |
| 13 | Extreme | X430-48t |
| 14 | Extreme | X450e-24p |
| 15 | Extreme | x150-24t |
| 16 | Extreme | X150-24t |
| 17 | Extreme | X450a-24x |
| 18 | Extreme | x150-24t |
| 19 | H3C | SecPath F1070 |
| 20 | Extreme | X350-24t |
| 21 | Extreme | summit X670 |
| 22 | Extreme | summit X670 |
| 23 | Cisco | S2960 48T |
| 24 | Cisco | S2960 48T |
| 25 | H3C | S6300-42QF |
| 26 | H3C | S6300-42QF |
| 27 | Extreme | x430-48t |
| 28 | Extreme | x430-48t |
| 29 | Extreme | x430-48t |
| 30 | Extreme | BD8810 |
| 31 | Extreme | BD8810 |
| 32 | Extreme | x430-48t |
| 33 | Extreme | x150-48t |
| 34 | Extreme | x430-48t |
| 35 | Extreme | x430-48t |
| 36 | Extreme | x430-48t |
| 37 | Extreme | x430-48t |
| 38 | Extreme | x430-48t |
| 39 | Extreme | x430-48t |
| 40 | Extreme | x430-48t |
| 41 | Extreme | BD8806 |
| 42 | Extreme | BD8806 |
| 43 | Extreme | X250e-24p |
| 44 | Extreme | X430-48t |
| 45 | Extreme | x450e-24p |
| 46 | Extreme | x430-48t |
| 47 | Extreme | x430-48t |
| 48 | Extreme | x430-48t |
| 49 | Extreme | x430-48t |
| 50 | Extreme | X150-24t |
| 51 | Extreme | x430-48t |
| 52 | Extreme | x430-48t |
| 53 | Extreme | x430-48t |
| 54 | Extreme | x430-48t |
| 55 | Extreme | x430-48t |
| 56 | Extreme | x430-48t |
| 57 | Extreme | x430-48t |
| 58 | Extreme | x430-48t |
| 59 | Extreme | x430-48t |
| 60 | Extreme | x430-48t |
| 61 | Extreme | x430-48t |
| 62 | Extreme | x430-48t |
| 63 | Extreme | x430-48t |
| 64 | Extreme | x430-48t |
| 65 | Extreme | x450e-24p |
| 66 | Extreme | x430-48t |
| 67 | Extreme | x430-48t |
| 68 | Extreme | x430-48t |
| 69 | Extreme | x430-48t |
| 70 | Extreme | X450e-24p |
| 71 | Extreme | x430-48t |
| 72 | Extreme | x450e-24p |
| 73 | Extreme | x430-48t |
| 74 | Extreme | x430-48t |
| 75 | Extreme | x430-48t |
| 76 | Extreme | x430-48t |
| 77 | Extreme | x430-48t |
| 78 | Extreme | x430-48t |
| 79 | Extreme | x430-48t |
| 80 | Extreme | x430-48t |
| 81 | Extreme | x430-48t |
| 82 | Extreme | x430-48t |
| 83 | Extreme | X150-24t |
| 84 | Extreme | X150-24t |
| 85 | Extreme | X150-24t |
| 86 | Extreme | X150-24t |
| 87 | Extreme | X150-24t |
| 88 | Extreme | x430-48t |
| 89 | Extreme | X150-24t |
| 90 | Extreme | X150-48t |
| 91 | Extreme | X150-24t |
| 92 | Extreme | X150-24t |
| 93 | Extreme | X150-24t |
| 94 | Extreme | X150-48t |
| 95 | Extreme | BD8806 |
| 96 | Extreme | BD8806 |
| 97 | Extreme | x430-48t |
| 98 | Extreme | x430-48t |
| 99 | Extreme | x430-48t |
| 100 | Extreme | x430-48t |
| 101 | Extreme | x430-48t |
| 102 | Extreme | X440-48t-10G |
| 103 | Extreme | x430-48t |
| 104 | Extreme | x430-48t |
| 105 | Extreme | x430-48t |
| 106 | Extreme | x430-48t |
| 107 | Extreme | x430-48t |
| 108 | EXTREME | X430-48T |
| 109 | EXTREME | X430-48T |
| 110 | EXTREME | X150-48T |
| 111 | EXTREME | X430-48T |
| 112 | EXTREME | X430-48T |
| 113 | EXTREME | X430-48T |
| 114 | EXTREME | X430-48T |
| 115 | EXTREME | X430-48T |
| 116 | EXTREME | X430-48T |
| 117 | EXTREME | X430-48T |
| 118 | EXTREME | X430-48T |
| 119 | EXTREME | X250e-24p |
| 120 | EXTREME | X430-48T |
| 121 | EXTREME | X430-48T |
| 122 | Extreme | X150-24t |
| 123 | Extreme | X150-24t |
| 124 | Extreme | X150-24t |
| 125 | Extreme | X150-24t |
| 126 | Extreme | x460-24t |
| 127 | Extreme | x430-48t |
| 128 | EXTREME | X430-48T |
| 129 | Extreme | X150-24t |
| 130 | Extreme | X250e-24p |
| 131 | EXTREME | X430-48T |
| 132 | Extreme | x430-48t |
| 133 | Extreme | x430-48t |
| 134 | Extreme | x430-48t |
| 135 | Extreme | x150-24t |
| 136 | Extreme | x150-24t |
| 137 | Extreme | X150-48t |
| 138 | Extreme | X150-48t |
| 139 | Extreme | X430-48t |
| 140 | Extreme | X150-24t |
| 141 | Extreme | X150-48t |
| 142 | Extreme | X150-48t |
| 143 | Extreme | X150-48t |
| 144 | Extreme | X150-48t |
| 145 | Extreme | X450e-24p |
| 146 | Extreme | X150-24t |
| 147 | Extreme | X450e-24p |
| 148 | Extreme | BD8806 |
| 149 | Extreme | x430-48t |
| 150 | Extreme | x430-48t |
| 151 | Extreme | x430-48t |
| 152 | Extreme | x440e-24p |
| 153 | Extreme | BD8806 |
| 154 | Extreme | X430-48t |
| 155 | Extreme | X430-48t |
| 156 | Extreme | X430-48t |
| 157 | Extreme | X450e-24P |
| 158 | Extreme | X430-48t |
| 159 | Extreme | X430-48t |
| 160 | Extreme | X430-48t |
| 161 | Extreme | X440-48t-10g |
| 162 | Extreme | X430-48t |
| 163 | Extreme | X450E-24p |
| 164 | Extreme | X150-48t |
| 165 | Extreme | X150-24t |
| 166 | Extreme | X150-48t |
| 167 | Extreme | X150-48t |
| 168 | Extreme | X150-24t |
| 169 | Extreme | x430-48t |
| 170 | Extreme | x430-48t |
| 171 | Extreme | BD8806 |
| 172 | Extreme | BD8806 |
| 173 | Extreme | X430-48t |
| 174 | Extreme | X430-48t |
| 175 | Extreme | X430-48t |
| 176 | Extreme | X250e-24p |
| 177 | Extreme | X450e-24P |
| 178 | Extreme | X150-24t |
| 179 | Extreme | X150-48t |
| 180 | Extreme | X150-48t |
| 181 | Extreme | x430-48t |
| 182 | Extreme | BD8806 |
| 183 | Extreme | X150-48t |
| 184 | Extreme | x430-48t |
| 185 | Extreme | x430-48t |
| 186 | Extreme | x150-24t |
| 187 | Extreme | x430-48t |
| 188 | Extreme | x430-48t |
| 189 | Extreme | X430-48T |
| 190 | Extreme | X430-48T |
| 191 | Extreme | x450e-24p |
| 192 | Extreme | x150-48t |
| 193 | Extreme | BD8806 |
| 194 | Extreme | X150-24t |
| 195 | Extreme | x430-48t |
| 196 | Extreme | X150-24t |
| 197 | 思科 | 2960-s |
| 198 | 思科 | 2960-s |
| 199 | 思科 | 2960-s |
| 200 | 思科 | 2960-s |
| 201 | Extreme | x430-48t |
| 202 | Extreme | x430-48t |
| 203 | Extreme | x430-48t |
| 204 | Extreme | BD8806 |
| 205 | Extreme | x430-48t |
| 206 | Extreme | x430-48t |
| 207 | Extreme | x430-48t |
| 208 | Extreme | x430-48t |
| 209 | Extreme | x430-48t |
| 210 | Extreme | X430-48t |
| 211 | Extreme | X430-48t |
| 212 | Extreme | X430-48t |
| 213 | Extreme | X150-24t |
| 214 | Extreme | X150-24t |
| 215 | Extreme | BD-8806 |
| 216 | Extreme | x430-48t |
| 217 | Extreme | x430-48t |
| 218 | Extreme | x430-48t |
| 219 | Extreme | x430-48t |
| 220 | Extreme | x430-48t |
| 221 | Extreme | x430-48t |
| 222 | Extreme | x430-48t |
| 223 | Extreme | x430-48t |
| 224 | Extreme | x430-48t |
| 225 | H3C | S5130S-52S-HI |
| 226 | Extreme | x430-48t |
| 227 | H3C | S5130S-52S-HI |
| 228 | H3C | S5130S-52S-HI |
| 229 | Extreme | X150-48T |
| 230 | H3C | S5130S-52S-HI |
| 231 | Extreme | X430-48t |
| 232 | Extreme | X150-24T |
| 233 | Extreme | X150-24t |
| 234 | Extreme | X150-24t |
| 235 | Extreme | X150-24t |
| 236 | Extreme | X150-24t |
| 237 | Extreme | X150-24t |
| 238 | Extreme | X150-24t |
| 239 | Extreme | X460-24t |
| 240 | Extreme | X430-48t |
| 241 | Extreme | X430-8p |
| 242 | Extreme | X430-48t |
| 243 | Extreme | X440G2-48t-10G4 |
| 244 | Extreme | X150-24t |
| 245 | Extreme | X430-24t |
| 246 | Extreme | X430-24t |
| 247 | Extreme | Summit200-24 |
| 248 | Extreme | X150-48t |
| 249 | Extreme | X150-48t |
| 250 | Extreme | X150-48t |
| 251 | Extreme | X150-48t |
| 252 | Extreme | X150-48t |
| 253 | Extreme | X150-24t |

**2）原厂维修期内的设备清单（提供网络基础架构规划管理及调整、网络设备配置管理、网络性能优化、新增网络接入、网络故障处理等服务）**

|  |  |  |
| --- | --- | --- |
| 序号 | 品牌 | 型号 |
| 1 | HUAWEI | S7703核心 |
| 2 | H3C | H3C MSR 50-60 |
| 3 | HUAWEI | S5720-28X-SI-AC |
| 4 | H3C | S5720-52X-SI-AC |
| 5 | H3C | S5720-52X-SI-AC |
| 6 | HUAWEI | S5720-28X |
| 7 | HUAWEI | S5720-52X |
| 8 | HUAWEI | S7703 |
| 9 | HUAWEI | S5720-28X |
| 10 | H3C | S5130S-28S |
| 11 | HUAWEI | S5720-28X |
| 12 | HUAWEI | S5720-52X |
| 13 | HUAWEI | S5720-28X |
| 14 | HUAWEI | S5720-28X |
| 15 | HUAWEI | S5720-28X |
| 16 | HUAWEI | S5720-28X |
| 17 | HUAWEI | S5720-28X |
| 18 | H3C | S5130S-52S |
| 19 | HUAWEI | S5720-52X |
| 20 | HUAWEI | S5720-52X |
| 21 | HUAWEI | S5720-28X |
| 22 | HUAWEI | S5720-52X |
| 23 | H3C | S5120V2-10P |
| 24 | HUAWEI | S5720-52X |
| 25 | H3C | S5120V2-10P |
| 26 | HUAWEI | S5720-52X |
| 27 | HUAWEI | S5720-52X |
| 28 | HUAWEI | S5720-28X |
| 29 | HUAWEI | S7703 |
| 30 | HUAWEI | S5720-52X-SI-AC |
| 31 | HUAWEI | S5720-28X-SI-AC |
| 32 | H3C | S5130S-28S-HI |
| 33 | HUAWEI | S5720-28X-SI-AC |
| 34 | HUAWEI | S5720-52X-SI-AC |
| 35 | HUAWEI | S5720-52X-SI-AC |
| 36 | HUAWEI | S5720-28X-SI-AC |
| 37 | HUAWEI | S5720-52X-SI-AC |
| 38 | H3C | S5130S-10P-EI |
| 39 | HUAWEI | S5720-28X-SI-AC |
| 40 | HUAWEI | S5720-52X-SI-AC |
| 41 | HUAWEI | S5720-28X-SI-AC |
| 42 | H3C | S5130S-28S-HI |
| 43 | HUAWEI | S5720-52X-SI-AC |
| 44 | HUAWEI | S5720-52X-SI-AC |
| 45 | H3C | S5130S-52S-HI |
| 46 | HUAWEI | S5720-52X-SI-AC |
| 47 | HUAWEI | S5720-52X-SI-AC |
| 48 | HUAWEI | S5720-52X-SI-AC |
| 49 | H3C | S5130S-52S-HI |
| 50 | H3C | S5130S-52S-HI |
| 51 | H3C | S5130S-28S-HI |
| 52 | HUAWEI | S5720-52X-SI-AC |
| 53 | HUAWEI | S5720S-28P-PWR-LI |
| 54 | HUAWEI | S5720-52X-SI-AC |
| 55 | H3C | S5130S-52S-HI |
| 56 | HUAWEI | S5720-52X-SI-AC |
| 57 | H3C | S5130S-28S-HI |
| 58 | HUAWEI | S5720-52X-SI-AC |
| 59 | HUAWEI | S7703 |
| 60 | HUAWEI | S5720-52X-SI-AC |
| 61 | HUAWEI | S5720-52X-SI-AC |
| 62 | H3C | S5130S-52S-HI |
| 63 | HUAWEI | S5720-28X-SI-AC |
| 64 | H3C | S5130S-52S-HI |
| 65 | HUAWEI | S5720-52X-SI-AC |
| 66 | HUAWEI | S5720-52X-SI-AC |
| 67 | HUAWEI | S5720-52X-SI-AC |
| 68 | HUAWEI | S5720-52X-SI-AC |
| 69 | HUAWEI | S5720-52X-SI-AC |
| 70 | H3C | S5130S-52S-HI |
| 71 | H3C | S5130S-28S-HI |
| 72 | HUAWEI | S5720-28X-SI-AC |
| 73 | H3C | S5130S-53S-HI |
| 74 | HUAWEI | S7703 |
| 75 | HUAWEI | S5720-28X-SI-AC |
| 76 | HUAWEI | S5720-52X-SI-AC |
| 77 | HUAWEI | S5720-52X-SI-AC |
| 78 | H3C | S10506 |
| 79 | HUAWEI | S7703 |
| 80 | HUAWEI | S5720-52X-SI-AC |
| 81 | HUAWEI | S5720-52X-SI-AC |
| 82 | H3C | S5130S-52S-HI |
| 83 | H3C | S5130S-52S-HI |
| 84 | HUAWEI | S5720-28X-SI-AC |
| 85 | HUAWEI | S5720-28X-SI-AC |
| 86 | H3C | S5130S-28S-HI |
| 87 | HUAWEI | S5720-28X-SI-AC |
| 88 | H3C | S5130S-28S-HI |
| 89 | HUAWEI | S5720-28X-SI-AC |
| 90 | H3C | S5130S-52S-HI |
| 91 | HUAWEI | S5720-28X-SI-AC |
| 92 | H3C | S5130S-52S-HI |
| 93 | HUAWEI | S5720-28X-SI-AC |
| 94 | HUAWEI | S7703 |
| 95 | H3C | S10506 |
| 96 | HUAWEI | S7703 |
| 97 | HUAWEI | S5720-28X-SI-AC |
| 98 | H3C | S10506 |
| 99 | HUAWEI | S5720-28X-SI-AC |
| 100 | HUAWEI | S5720-28X-SI-AC |
| 101 | HUAWEI | S5720-52X-SI-AC |
| 102 | HUAWEI | S5720-52X-SI-AC |
| 103 | HUAWEI | S7703 |
| 104 | HUAWEI | S5720-52X-SI-AC |
| 105 | HUAWEI | S5720-52X-SI-AC |
| 106 | HUAWEI | S5720-52X-SI-AC |
| 107 | HUAWEI | S5720-28X-SI-AC |
| 108 | HUAWEI | S5720-28X-SI-AC |
| 109 | HUAWEI | S5720-28X-SI-AC |
| 110 | HUAWEI | S5720-52X-SI-AC |
| 111 | HUAWEI | S5720-28X-SI-AC |
| 112 | HUAWEI | S7703 |
| 113 | HUAWEI | S5720-52X-SI-AC |
| 114 | H3C | S10506核心 |
| 115 | H3C | S5130S-52S-HI |
| 116 | H3C | S5130S-28S-HI |
| 117 | H3C | S5130S-52S-HI |
| 118 | H3C | S5130S-28S-HI |
| 119 | H3C | S5130S-28S-HI |
| 120 | H3C | S5130S-28S-HI |
| 121 | H3C | S5130S-52S-HI |
| 122 | H3C | S5130S-28S-HI |
| 123 | H3C | S5130S-28S-HI |
| 124 | HUAWEI | S5720-28X-SI-AC |
| 125 | HUAWEI | S5720-52X-SI-AC |
| 126 | H3C | S5130S-52S-HI |
| 127 | H3C | LS-5130S-10P-EI |
| 128 | H3C | LS-5130S-10P-EI |
| 129 | H3C | LS-5130S-10P-EI |
| 130 | H3C | LS-5130S-10P-EI |
| 131 | H3C | LS-5130S-10P-EI |
| 132 | H3C | LS-5130S-10P-EI |
| 133 | H3C | LS-5130S-10P-EI |
| 134 | H3C | LS-5130S-10P-EI |
| 135 | H3C | LS-5130S-10P-EI |
| 136 | H3C | LS-5130S-10P-EI |
| 137 | H3C | LS-5130S-10P-EI |
| 138 | H3C | LS-5130S-10P-EI |
| 139 | H3C | LS-5130S-10P-EI |
| 140 | H3C | LS-5130S-10P-EI |
| 141 | H3C | LS-5130S-10P-EI |
| 142 | H3C | LS-5130S-52S-HI |
| 143 | H3C | LS-5130S-52S-HI |
| 144 | H3C | LS-5130S-52S-HI |
| 145 | H3C | LS-5130S-52S-HI |
| 146 | H3C | LS-5130S-52S-HI |
| 147 | H3C | LS-5130S-52S-HI |
| 148 | H3C | LS-5130S-52S-HI |
| 149 | H3C | LS-5130S-28S-HI |
| 150 | H3C | LS-5130S-28S-HI |
| 151 | HUAWEI | S5720-52X-SI-AC |
| 152 | HUAWEI | S5720-28X-SI-AC |
| 153 | HUAWEI | S5720-28X-SI-AC |
| 154 | H3C | LS-5130S-10P-EI |
| 155 | H3C | LS-5130S-10P-EI |
| 156 | H3C | LS-5130S-10P-EI |
| 157 | H3C | LS-5130S-10P-EI |
| 158 | H3C | LS-5130S-10P-EI |
| 159 | H3C | LS-5130S-10P-EI |
| 160 | H3C | LS-5130S-10P-EI |
| 161 | H3C | LS-5130S-10P-EI |
| 162 | H3C | LS-5130S-10P-EI |
| 163 | H3C | LS-5130S-10P-EI |
| 164 | H3C | LS-5130S-10P-EI |
| 165 | H3C | LS-5130S-10P-EI |
| 166 | H3C | LS-5130S-10P-EI |
| 167 | H3C | LS-5130S-10P-EI |
| 168 | H3C | LS-5130S-10P-EI |
| 169 | H3C | LS-5130S-52S-HI |
| 170 | H3C | LS-5130S-52S-HI |
| 171 | H3C | LS-5130S-52S-HI |
| 172 | H3C | LS-5130S-52S-HI |
| 173 | H3C | LS-5130S-52S-HI |
| 174 | H3C | LS-5130S-52S-HI |
| 175 | H3C | LS-5130S-52S-HI |
| 176 | H3C | LS-5130S-28S-HI |
| 177 | H3C | LS-5130S-28S-HI |
| 178 | HUAWEI | S5720-52X-SI-AC |
| 179 | HUAWEI | S5720-28X-SI-AC |
| 180 | HUAWEI | S5720-28X-SI-AC |

附件：光缆抢修要求

**1、光缆抢修费用**

光缆抢修的服务范围包括省医东川路本部、惠福西分部、南海平洲分部和合群门诊部的内部自有光缆，不包括租用运营商的城市跨街光缆。服务费用每三个月清算一次。

1）、光缆端接费用

当光纤端接部分意外损坏，乙方可以收取的抢修材料成本和人工费用，所用工具由乙方负责。

2）、光缆中断接续费用

如果光缆中间折断，需要接续。如果需要增加新的缆材才能接续，则视缆材的类型和长度另外计费。如果涉及土木施工（如挖沟、凿墙等），则建筑材料另外收费。其它材料由乙方负责。在光缆接续前需要通过测试定位断点，测试费用见下文第3点。

3）、光缆测试费用

光缆测试包括断点定位、传输损耗等测试，所需工具由乙方负责，所需材料及人工请报价