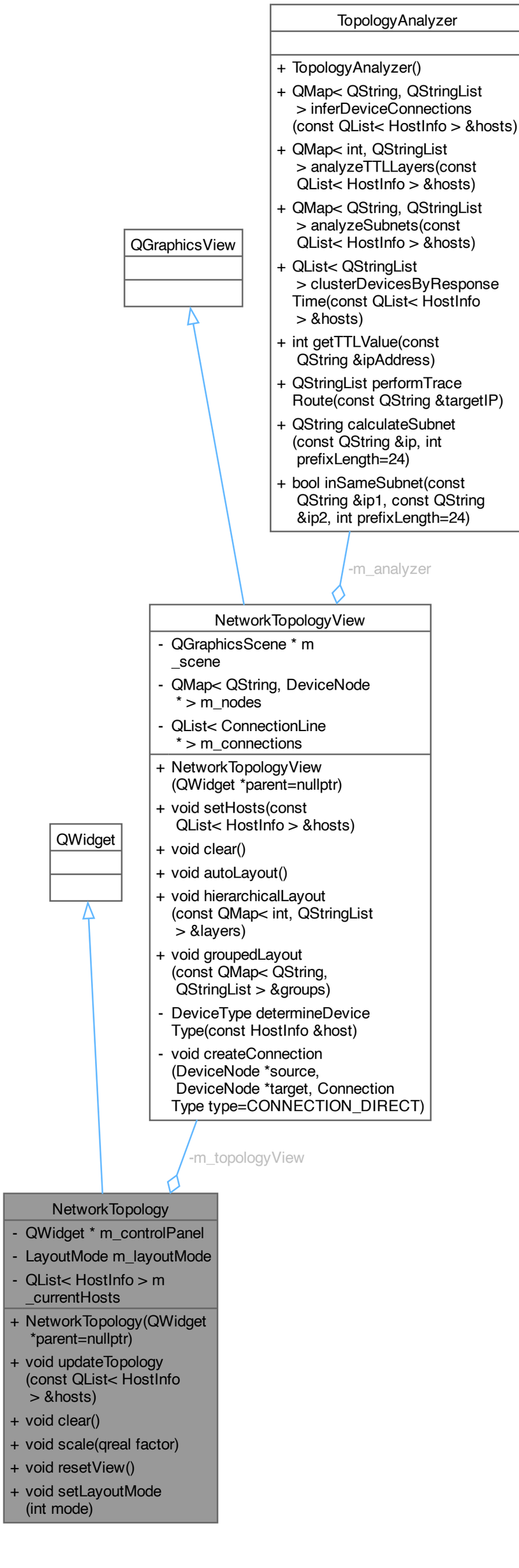
TopologyAnalyzer
+ TopologyAnalyzer()
+ QMap< QString, QStringList > inferDeviceConnections (const QList< HostInfo > &hosts)
+ QMap< int, QStringList > analyzeTTLLayers(const QList< HostInfo > &hosts)
+ QMap< QString, QStringList > analyzeSubnets(const QList< HostInfo > &hosts)
+ QList< QStringList > clusterDevicesByResponse Time(const QList< HostInfo > &hosts)
+ int getTTLValue(const QString &ipAddress)
+ QStringList performTrace Route(const QString &targetIP)
+ QString calculateSubnet (const QString &ip, int prefixLength=24)
+ bool inSameSubnet(const QString &ip1, const QString &ip2, int prefixLength=24)
QGraphicsView
-m_analyzer
NetworkTopologyView
- QGraphicsScene * m _scene
- QMap< QString, DeviceNode * > m_nodes
- QList< ConnectionLine * > m_connections
+ NetworkTopologyView (QWidget *parent=nullptr)
+ void setHosts(const QList< HostInfo > &hosts)
+ void clear()
+ void autoLayout()
+ void hierarchicalLayout (const QMap< int, QStringList > &layers)
+ void groupedLayout (const QMap< QString, QStringList > &groups)
- DeviceType determineDevice Type(const HostInfo &host)
- void createConnection (DeviceNode *source, DeviceNode *target, Connection Type type=CONNECTION_DIRECT)
QWidget
-m_topologyView
NetworkTopology
- QWidget * m_controlPanel
- LayoutMode m_layoutMode
- QList< HostInfo > m _currentHosts
+ NetworkTopology(QWidget *parent=nullptr)
+ void updateTopology (const QList< HostInfo > &hosts)
+ void clear()
+ void scale(qreal factor)
+ void resetView()
+ void setLayoutMode (int mode)