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COMC2750 Exercise 1H

**Description:** At the ham radio station it is customary to log all contacts made on the air. It used to be a federal requirement that has been eliminated but it is still a widely held practice. The data kept usually is the date & time (in UTC), the frequency, the mode used, the call sign of the operator contacted, name, location, signal strength, any contest specific exchange data, or any other contact specific miscellaneous data or observations.

**Use cases:**

-As an operator I want to add the call sign contacted

-As an operator I want to add the time/date in UTC, beginning and/or ending

-As an operator I want to add the frequency used

-As an operator I want to add the mode used

-As an operator I want to add the power level used

-As an operator I want to add the name of the person contacted

-As an operator I want to add the location of the other station contacted

-As an operator I want to add the signal strength noted both given and received

-As an operator I want to add any required contest-specific data

-As an operator I want to add whether a QSL card was sent or received

-As an operator I want to add any miscellaneous data or observations noted during the contact

-As an operator I want to modify any data entry later if needed

***Conceptual Classes:***

**Business transactions:**

Contact successfully made(stationWorked)

**Transaction line items:**

Call sign(callSign)

When(dateUTC, timeStartUTC, timeEndUTC)

Frequency(frequencyMhz)

Mode(usb, lsb, am, fm, cw, data)

Power(outputInWatts)

Report(sent, received)

Name(firstName, lastName)

Location(gridSquare, continent, country, state, province, city/Town, zoneITU/CQ)

Miscellaneous(contestName, specialExchangeData, qslStatus, localWeather)

**Product or service related to a transaction:**

QSL card(sent, received)

**Roles of people:**

Operator making contact(callSign, name)

Operator contacted(callSign, name)

**Place of transaction or service:**

Frequency(inMhz)

Mode(usb, lsb, am, fm, cw, data)

**Noteworthy events:**

ATNO(allTimeNewOne)

Duplicate contact(dupe)

**Physical objects:**

People(logHolder, stationContacted)

**Descriptions of things:**

Equipment(radio, antenna, amp)

Location(gridSquare, continent, country, state, province, city/Town, zoneITU/CQ)

**Catalogs:**

**Containers of other things:**

When

Location

Miscellaneous

**Things in a container:**

When(dateUTC, timeStartUTC, timeEndUTC)

Location(gridSquare, continent, country, state, province, city/Town, zoneITU/CQ)

Miscellaneous(contestName, specialExchangeData, qslStatus)