



***Society of Cable
Telecommunications
Engineers***

**ENGINEERING COMMITTEE
Network Operations Subcommittee**

SCTE OPERATIONAL PRACTICE

SCTE 227 2016

**Cable Operator Location Risk Assessment Operational
Practice**

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1. Introduction

1.1. Executive Summary

A location risk assessment (LRA) is performed to identify threats that could negatively impact the ability to conduct business in a geographic location. The results of the LRA help to align strategic business decisions with effective risk reduction solutions at a geographic location. The LRA considers all threats whether they are financial, natural, political or human related. The LRA identifies and weighs the risks to business continuity based on a four-step process.

The four steps are:

1. Strategic risk assessment
2. Tactical risk assessment
3. Strategic and tactical risk assessment report
4. Project evaluation matrix

The purposes of performing the LRA are to:

- Determine if it is appropriate to do business in a specific geographic location,
- Identify probable threats to the business within the specific geographic location,
- Determine the financial exposure to the company *should* the probable threats occur, and
- Determine cost effective solutions to mitigate or minimize the risks.

The scope of the location risk assessment applies to all areas of the cable operator business that would impact operations based on locational considerations. Also, third party facilities such as co-location facilities, an LRA *should* be conducted.

These steps are guides for determining the overall risk assessment for a location. Depending on the particular cable operator project all steps *may* not be required.

The information learned from the strategic, tactical and location risk assessments will be summarized by category on the strategic and tactical risk assessments report. Based on the narrative issues an overall rank will be determined and assigned for an overall risk assessment. The overall risk assessment rank and reason for ranking will be transferred to the project evaluation matrix.

1.2. Benefits

LRA provides a basis for an informed business continuity plan. Cable operator's networks provide entertainment, communication and information services and therefore are a valuable asset to the community service it resides. Having a location risk assessment defined will enable cable operators make the best choices for planning how to mitigate threats that are location driven or dependent. Without a proper location risk assessment, recovery times during incidents could be prolonged and thus impact speeds at which the customer can resume use of services. Finally as an industry, cable operators will be more prepared in time of need based on location dependent concerns and ultimately aid in the improvement of customer satisfaction.

1.3. Intended Audience

Senior management of a business unit *should* initiate and sponsor the risk assessment and involve all key business units and stakeholders. Depending on the type of business risk assessment to be completed, the senior management of the business unit or location will assign project members to the risk assessment team. The strategic risk assessment team *should* be composed of representatives from the initiating business unit, and the finance and business development departments. Once the strategic risk assessment

is completed and the project is determined viable to pursue, other groups *may* be brought in to complete the tactical risk assessments.

The risk assessment team is responsible for completing the business risk assessment and making recommendations to the senior management of the business unit. The overall risk assessment becomes part of the decision matrix for approving the capital expense request.

1.4. Areas for Further Investigation or to be Added in Future Versions

Periodically the Federal Emergency Management Agency (FEMA) will redraw flood plain maps or insurance brokers and underwriters *may* update guidelines necessary for review under the LRA process. Crime statistics and zoning rules *should* also be reviewed. Development of a formal risk committee to address the comprehensive risk list as outlined in SCTE 206 2014 Cable Operator Business Continuity and Disaster Recovery Recommended Practices.

2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

- No normative references are applicable.

3. Informative References

The following documents might provide valuable information to the reader but are not required when complying with this document.

3.1. SCTE References

- SCTE 206 2014 -- Cable Operator Business Continuity and Disaster Recovery Recommended Practices
<http://www.scte.org/documents/pdf/Standards/SCTE%20206%202014.pdf>

3.2. Standards from Other Organizations

- International Organization for Standardization (ISO) 22301
Societal security -- Business continuity management systems --- Requirements
http://www.iso.org/iso/catalogue_detail?csnumber=50038ISO 22301
- Business Continuity Institute (BCI)
<http://www.thebci.org/>

3.3. Published Materials

- No informative references are applicable.

4. Compliance Notation

| | |
|-------------------|---|
| <i>shall</i> | This word or the adjective “ <i>required</i> ” means that the item is an absolute requirement of this document. |
| <i>shall not</i> | This phrase means that the item is an absolute prohibition of this document. |
| <i>forbidden</i> | This word means the value specified shall never be used. |
| <i>should</i> | This word or the adjective “ <i>recommended</i> ” means that there may exist valid reasons in particular circumstances to ignore this item, but the full implications should be understood and the case carefully weighted before choosing a different course. |
| <i>should not</i> | This phrase means that there may exist valid reasons in particular circumstances when the listed behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label. |
| <i>may</i> | This word or the adjective “ <i>optional</i> ” means that this item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because it enhances the product, for example; another vendor may omit the same item. |
| <i>deprecated</i> | Use is permissible for legacy purposes only. Deprecated features may be removed from future versions of this document. Implementations should avoid use of deprecated features. |

5. Abbreviations and Definitions

5.1. Abbreviations

| | |
|------|--|
| ADA | Americans with Disabilities Act |
| BCI | Business Continuity Institute |
| FEMA | Federal Emergency Management Agency |
| ISO | International Organization for Standardization |
| IT | information technology |
| LRA | location risk assessment |
| N/A | not applicable |
| PCBs | polychlorinated biphenyl |
| ROI | return on investment |
| SCTE | Society of Cable Telecommunication Engineers |

5.2. Definitions

| | |
|----------------------|---|
| narrative | Explains and justifies the ranking in a risk assessment |
| operating principles | Examines practices for alignment of activities to core strategic plans that define the foundation of how a company operates |
| recovery plan | Documented plan by an organization that will insure its recovery and continuity in the face of a disaster or other major outage |
| risk analysis | Progression from a risk assessment to quantify threats to an organization, the probability of them being realized and impacts to the organization |

| | |
|-----------------|--|
| risk assessment | Identification, quantification, and prioritization of threats that could dramatically impact an operation, to include but not limited to technology, location, vendor, and process |
|-----------------|--|

6. Four Steps to Location Risk Assessment

The following four steps are executed to perform a cable operator location risk assessment.

6.1. STEP 1: Strategic Risk Assessments

Strategic Assessments: These assessments are made either when deciding to do business in a foreign country or when assessing the viability of doing work in a specific state within the United States. They assess the overall stability of doing business in that country or state and identify any strategic risk exposures to the company in pursuing the business venture. The strategic assessments are:

RISKS

- Country or political risks
- Financial risks
- Operational risks
- Technology risks
- Human capital

DEPARTMENTS

- Government affairs
- Finance
- Business unit management
- Engineering
- Human resources

The analysis tools used by the departments to perform the risk assessments are developed and maintained within the specific departments.

The strategic risk assessments are the first step in considering a new business venture and *should* be performed prior to any of the other risk assessments being completed. A ranking of 0 to 5 is assigned to each completed assessment along with any narrative issues uncovered by the department responsible for completion of the assessment. The ranking identifies the degree of risk or exposure to the company based on the following descriptions:

Table 1 - Strategic Risk Description

| RANK | STRATEGIC RISK DESCRIPTION |
|------|---|
| 0 | No identified risk |
| 1 | Slight risk, but will not materially jeopardize the success of the venture or have significant strategic exposure to the company. |
| 2 | Slight risk to the success of the venture but without significant strategic exposure to the company. |
| 3 | Moderate degree of risk to the success of the venture with some strategic exposure to the company. |
| 4 | High degree of risk to the success of the venture with moderate strategic exposure to the company. |
| 5 | High degree of risk to the success of the venture with significant strategic exposure to the company. |

The ranking for all the strategic risk assessments and narrative issues are summarized on the strategic and tactical risk assessment report (Step 4).

Once the strategic risk assessments have been performed and the issues identified and there is still a desire by the company to continue exploring the business venture, then the tactical risk assessments *should* be performed.

6.2. STEP 2: Tactical Risk Assessments

These risk assessments evaluate any potential environmental, security, technological, or other risks associated with doing business in a specific foreign or domestic location. The tactical risk assessments can include but is not limited to:

RISKS

- Environmental risks
- Loss control & property risk
- Security risks
- Technology risks

DEPARTMENTS

- Engineering
- Risk management/business units
- Corporate security

These identified departments *should* complete the tactical risk assessments prior to conducting any new business in the geographic location. Each of the risk assessments evaluates specific business concerns associated with conducting work at the location. Depending on the nature of the business venture or the work to be performed at the location, not all the risk assessments *may* need to be completed.

The analysis tools used by the departments to perform the risk assessments are developed and maintained within the specific departments with copies distributed to the appropriate corporate support group.

A ranking of 0 to 5 is assigned to each completed assessment along with any narrative issues uncovered by the department responsible for completion of the assessment. The ranking identifies the degree of risk or exposure to the company based on the following descriptions:

Table 2 - Tactical Risk Assessment Ranking

| RANK | TACTICAL RISK DESCRIPTION |
|-------------|--|
| 0 | No identified risk |
| 1 | Slight risk, but will not materially jeopardize the success of the venture or have significant Tactical exposure to the company. |
| 2 | Slight risk to the success of the venture but without significant Tactical Risk exposure to the company. |
| 3 | Moderate degree of risk to the success of the venture with some Tactical Risk exposure to the company. |
| 4 | High degree of risk to the success of the venture with moderate Tactical Risk exposure to the company. |
| 5 | High degree of risk to the success of the venture with significant Tactical Risk exposure to the company. |

The ranking for the tactical risk assessments and narrative issues are summarized on the strategic and tactical risk assessment report (Step 4).

6.2.1. Physical Risk Assessment Factors and Worksheets

The physical risk assessment factors tool is used to identify risks that could negatively impact a physical location. The physical risk assessment factor identifies and weighs the threats to a location. The risks are

classified in such key areas as environmental, health, safety, technology, economic, natural, political and human related risks.

- The physical risk assessment factors provides for a narrative explanation concerning the risk and ranks the risk from 0 to 5.

A ranking of 0 to 5 is assigned to each completed assessment along with any narrative issues uncovered by the department responsible for completion of the assessment. The ranking identifies the degree of risk or exposure to the company based on the following descriptions

Table 3 - Physical Risk Description

| RANK | PHYSICAL RISK DESCRIPTION |
|------|---|
| 0 | No identified risk |
| 1 | Slight risk, but will not materially jeopardize the success of the venture or have significant physical risk exposure to the company. |
| 2 | Slight risk to the success of the venture but without significant physical risk exposure to the company. |
| 3 | Moderate degree of risk to the success of the venture with some physical risk exposure to the company. |
| 4 | High degree of risk to the success of the venture with moderate physical risk exposure to the company. |
| 5 | High degree of risk to the success of the venture with significant physical risk exposure to the company. |

NOTE: The physical risk assessment factors tool is only meant to be a guide in helping facilitate discussion around potential risks faced at a location. You *may* determine that some risks, though ranking low on the physical risk assessment, merit mitigation and/or future planning to raise their ranking.

The purposes of performing the risk assessment factors are to:

- Identify threats for which situation response and business continuity plans can be prepared and tested;
- Evaluate the susceptibility of a location to the same “catastrophic” event for multiple critical facilities in the same area or region;
- Identify exposures and impacts from major human-made hazards, including vehicular/rail traffic (physical exposure and chemical release vapor clouds), air traffic flight paths, and or neighboring hazardous industrial processes. (inside or outside the premise);
- Select technical property where the first floor is at or above the 500 year level for flood exposure;
- Identify threats so improvements can be made to prevent or minimize the impact of the threat prior to the threat occurring. Changes to the current operating environment *may* be justified where probability and impact ratings are high

The results of the risk assessment factors are summarized in the strategic and tactical risk assessment report. (Step 4)

Provided on the next six pages are the worksheets for evaluating the risk assessment factors.

RISK ASSESSMENT FACTORS

Location _____

| HUMAN & POLITICAL RISK ASSESSMENT | PROB* | PAST FRE Q | BUS IMP* | NARRATIVE (Narrative description required if High or Medium Risks) | RANK (0-5) |
|---|--------------|-------------------|-----------------|---|-------------------|
| Country Risks | | | | | |
| Brand image concerns | | | | | |
| Brand protection concerns | | | | | |
| Counterfeiting & trademark concerns | | | | | |
| Economic environment | | | | | |
| Environmental regulations | | | | | |
| Health & safety situation | | | | | |
| Human rights environment | | | | | |
| Labor pool & climate | | | | | |
| Legislative environment | | | | | |
| Political environment | | | | | |
| Regulatory environment (taxes, zoning, fines) | | | | | |
| Reporting | | | | | |
| Social environment | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Legend:

***PROBABILITY & *BUSINESS IMPACT**

- H HIGH RISK - Contact risk management/security/business continuity**
- M MEDIUM RISK - Risk reduction strategy required**
- L LOW RISK**
- X N/A**

PAST FREQUENCY (list number of occurrences in last 10 years)

RISK ASSESSMENT FACTORS

Location _____

| BUSINESS OPERATIONS | VALUE | YES | NO | NARRATIVE | RANK (0-5) |
|---|--------------|------------|-----------|------------------|-----------------------|
| BUSINESS IMPACTS | | | | | |
| Building Asset Value | | | | | |
| Revenue Impact | | | | | |
| Business function only at this location | | | | | |
| Documented inventory list | | | | | |
| Documented recovery plan | | | | | |
| Geo-redundancy of applications | | | | | |
| Geo-redundancy of networks | | | | | |
| Loss of normal operations in excess of 30 days | | | | | |
| On-site storage of data | | | | | |
| Personnel skill set easily replaced with internal or external resources | | | | | |
| PROPERTY IMPACTS | | | | | |
| Building frame is steel or concrete | | | | | |
| Chiller/Cooling System | | | | | |
| Equipment near exterior walls | | | | | |
| Fire suppression system | | | | | |
| Fuel stored in building | | | | | |
| Hazardous materials stored in building | | | | | |
| Less than 20 feet from another building | | | | | |
| Many large glass windows | | | | | |
| Multi-story | | | | | |
| Multi-tenant | | | | | |
| Physical security at entrance | | | | | |
| | | | | | |

RISK ASSESSMENT FACTORS

Location _____

| LOSS CONTROL & PROPERTY RISK ASSESSMENT | PROB* | PAST FREQ | BUS IMP* | NARRATIVE (Narrative description required if High or Medium Risks) | RANK (0-5) |
|--|--------------|------------------|-----------------|--|-------------------|
| Natural Risks | | | | | |
| Fire/explosion or environmental release exposure from a neighboring site | | | | | |
| Drought | | | | | |
| Earthquake | | | | | |
| Flood > 500 year | | | | | |
| Hurricane | | | | | |
| Other wind damage | | | | | |
| Slide area | | | | | |
| Snow/ice storm or blizzard | | | | | |
| Tidal wave | | | | | |
| Tornado | | | | | |
| Volcano | | | | | |
| Collision Impact | | | | | |
| Air traffic flight patterns | | | | | |
| Train traffic | | | | | |
| Vehicle (intersecting highways) | | | | | |
| Building/Equipment Risks | | | | | |
| Fire | | | | | |
| ADA compliant | | | | | |
| Fire Protection/detection system | | | | | |
| Freezing/bursting of pipes | | | | | |
| Gas leaks | | | | | |
| Heating disruption | | | | | |
| Lighting non-compliance | | | | | |
| Power failure/fluctuation | | | | | |
| Roof Integrity | | | | | |
| Structural integrity | | | | | |
| Waste water treatment failure | | | | | |

Legend:

***PROBABILITY & *BUSINESS IMPACT**

- H HIGH RISK - Contact risk management/EPS/business continuity**
- M MEDIUM RISK – Risk reduction strategy required**
- L LOW RISK**
- X N/A**

PAST FREQUENCY (list number of occurrences in last 10 years)

RISK ASSESSMENT FACTORS

Location _____

| ENVIRONMENTAL RISK ASSESSMENT | PROB* | PAST FREQ | BUS IMP* | NARRATIVE (Narrative description required if High or Medium Risks) | RANK (0-5) |
|--|--------------|------------------|-----------------|--|-------------------|
| Environmental Risks | | | | | |
| Asbestos/PCBs | | | | | |
| Community health risks | | | | | |
| Drinking water availability and source | | | | | |
| Endangered species/wetlands | | | | | |
| Ground/surface water contamination | | | | | |
| Hazardous material spill | | | | | |
| Indoor air quality | | | | | |
| Lead based paint exposure | | | | | |
| Municipal sewer system issues | | | | | |
| Offsite contamination | | | | | |
| Onsite contamination | | | | | |
| Proximity to former/existing landfills | | | | | |
| Proximity to hazardous manufacturing | | | | | |
| Underground tanks | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Legend:

***PROBABILITY & *BUSINESS IMPACT**

- H HIGH RISK - Contact risk management/EPS/business continuity**
- M MEDIUM RISK – Risk reduction strategy required**
- L LOW RISK**
- X N/A**

PAST FREQUENCY (list number of occurrences in last 10 years)

RISK ASSESSMENT FACTORS

Location _____

| INFORMATION TECHNOLOGY RISK ASSESSMENT | PROB* | PAST FREQ | BUS IMP* | NARRATIVE (Narrative description required if High or Medium Risk) | RANK (0-5) |
|---|--------------|------------------|-----------------|---|-------------------|
| Technical Risks | | | | | |
| Application concerns | | | | | |
| Critical application failures | | | | | |
| Current itemized listing of equipment at location | | | | | |
| Ease of equipment replacement | | | | | |
| Electromagnetic interference | | | | | |
| External telecommunications failures | | | | | |
| Internal telecommunications failure | | | | | |
| Legacy equipment concerns | | | | | |
| Malfunction or failure of technologies/networks | | | | | |
| Talent-expertise replacement | | | | | |
| Uniqueness of technologies | | | | | |
| Vendor support concerns | | | | | |
| Data Risks | | | | | |
| Computer virus concerns | | | | | |
| Data entry error | | | | | |
| Improper handling of data | | | | | |
| Malicious damage to data | | | | | |
| Malicious damage to equipment | | | | | |
| Malicious damage to network components | | | | | |
| On-site storage of data | | | | | |
| Unauthorized access to data | | | | | |
| | | | | | |
| | | | | | |

Legend:

***PROBABILITY & *BUSINESS IMPACT**

- H HIGH RISK - Contact risk management/corporate security/business continuity**
- M MEDIUM RISK – Risk reduction strategy required**
- L LOW RISK**
- X N/A**

PAST FREQUENCY (list number of occurrences in last 10 years)

6.3. STEP 3: Strategic and Tactical Risk Assessment Report

The strategic and tactical risk assessment report summarizes the findings of the various strategic and tactical risk assessments performed regarding the business venture or specific location. Based on the narrative issues and rankings assigned, an overall risk assessment is determined. The overall risk assessment ranking is used in completing the project evaluation matrix and becomes one of the six assessment factors for approving the capital expense request.

The following page provides a template to complete the strategic and tactical risk assessment report.

STRATEGIC AND TACTICAL RISK ASSESSMENT REPORT

| RISK ASSESSMENT | RANK | NARRATIVE ISSUES |
|---|------|------------------|
| <i>Strategic</i> | | |
| Country & Political Risk Assessment | | |
| Financial Risk Assessment | | |
| Human Capital Risk Assessment | | |
| Operational Risk Assessment | | |
| <i>Tactical</i> | | |
| Environmental Risk Assessment | | |
| IT Risk Assessment | | |
| Security Risk Assessment | | |
| Loss Control & Property Risk Assessment | | |
| <i>Overall Risk Assessment</i> | | |

RANKING

- 0** No identified risk
- 1** Slight risk; no jeopardy to success of venture; no exposure
- 2** Slight risk to success of venture; minimal exposure
- 3** Moderate risk to success of venture; some exposure
- 4** High risk; moderate exposure
- 5** High risk; significant exposure

6.4. STEP 4: Project Evaluation Matrix

The project evaluation matrix is used to summarize information about the overall project. Here various criteria about the project are ranked and discussed. Part of the criteria is an assessment of the identified internal and external risks with doing business in a given geographic location. An overall risk ranking is assigned, and recommendations are given for continuing, or not continuing with the project.

Recommendations *may* include what *should* be done to mitigate any probable risks from occurring, or if the risk does occur, what *should* be done to minimize the impacts of the risk to the business.

The following page provides a project evaluation matrix.

PROJECT EVALUATION MATRIX

| CRITERIA | RANKING | WEIGHT | TOTAL | REASON FOR RANKING |
|--|----------------|---------------|--------------|---------------------------|
| Financial Return ROI % | | 10 | | |
| Strategic Match | | 5 | | |
| Operating Principle | | 5 | | |
| Strategic Architecture | | 5 | | |
| Essential Maintenance | | 5 | | |
| Risk Assessment | | -10 | | |
| Score w/o ROI % with ROI % | | | | |

RANKING

- 0** No identified risk
- 1** Slight risk; no jeopardy to success of venture; no exposure
- 2** Slight risk to success of venture; minimal exposure
- 3** Moderate risk to success of venture; some exposure
- 4** High risk; moderate exposure
- 5** High risk; significant exposure

6.5. Summary and Conclusion

Having performed a LRA threats that could negatively impact the ability to conduct business in a geographic location have been identified. The results help to align strategic business decisions with effective risk reduction solutions at a geographic location. The LRA considered all threats whether they are financial, natural, political or human related. The LRA identifies and weighs the risks to business continuity based on the four-step process.

Finally, from well-rounded business continuity objective the next step would be to assess strategies, accept risks identified, or transfer of risk and/or mitigate some or all of the identified risks.

Upon successful completion of a location risk assessment, cable operators *should* perform a business impact analysis AND launch business continuity plan to include: incident management, operational continuity, and recovery strategies.