# Using Quantitative Assessments

Archer Insight offers three assessment types for performing quantitative assessments on risk events.

* Actual allows you to assess the risk based on all preventive and mitigating controls as they are currently working.
* Actual and Inherent allows you to compare the risk when all preventive and mitigating controls are working as they are currently working versus the risk in the absence of working controls.
* Control Specification allows you to quantify the effectiveness of your controls, so you can show that there are benefits to them or improvements to be made.

**Note:** Before you can assess risk events, you must create their parent risks in Archer. See Creating Risks for more information.

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## Assess a new risk event

1. From the Risk Event listing page, click Add button .
2. Enter a name, select the parent risk, and select which assessment type you want to use.
3. Click Add.
4. Go to one of the following:
   * [Use Assessment Type: Actual](insight_assess_actual.htm#Use)
   * [Use Assessment Type: Actual and Inherent](insight_assess_actual_inherent.htm#Use2)
   * [Use Assessment Type: Control Specification](insight_assess_control_spec.htm#Use3)

## Assessment page fields

* [Fields for Assessment Type: Actual](#Fields)
* [Fields for Assessment Type: Actual and Inherent](#Fields2)
* [Fields for Assessment Type: Control Specification](#Fields3)

### Fields for Assessment Type: Actual

The following table lists the fields that support the Actual assessment type and their corresponding fields in Archer.

| Assessment Type | Section | Field | Archer Field |
| --- | --- | --- | --- |
| Actual | General Information | Name | Insight Risk Event > Risk Event Name |
| Status | Insight Risk Event > Exclude from Aggregations |
| Exclude from aggregations | Insight Risk Event > Status |
| Parent Risk | Insight Risk Event > Risk |
| Description | Insight Risk Event > Risk Event Description |
| Number of Occurrences | Rate | Insight Drivers > Rate |
| Insight Drivers > Driver Instances  **Note:** Not shown in Archer Insight. |
| Insight Driver Probability > Risk Probability  **Note:** Not shown in Archer Insight. Always set to 1. |
| Consequence General Information | Name | Insight Consequences > Consequence Name |
| Exclude from aggregations | Insight Consequences > Exclude from Aggregations |
| Status | Insight Consequences > Status |
| Aggregation Hierarchies | Insight Consequences > MRDC fields with alias pattern of Hierarchy\_*XX* |
| Description | Insight Consequences > Description |
| Impact Type | Insight Consequences > Impact Type |
| Financial Consequences | Minimum Impact | Insight Consequences > Minimum Impact |
| Median Impact | Insight Consequences > Median Impact |
| Downside Impact | Insight Consequences > Downside Impact |
|  | Insight Consequences > Conditional Probability Consequence Occurs  **Note:** Not shown in Archer Insight. Always set to 1. |
| Expected Annual Loss (actual) | Insight Consequences > Expected Annual Impact - Actual |
| Value at Risk at *n%* (actual) | Insight Consequences >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional Value at Risk at *n%* (actual) | Insight Consequences >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Non-Financial Consequences | Minimum Impact Level | Insight Consequences > Minimum Impact Level |
| Most Likely Impact Level | Insight Consequences > Most Likely Impact Level |
| Maximum Impact Level | Insight Consequences > Maximum Impact Level |
|  | Insight Consequences > Conditional Probability Consequence Occurs  **Note:** Not shown in Archer Insight. Always set to 1. |
| Overview | Status | Insight Risk Event > Status |
| Parent Risk | Insight Risk Event > Risk |
| Aggregation Hierarchies | Risks > MRDC fields with alias pattern of Hierarchy\_*XX* |
| Quantification Metrics | Rate | Insight Risk Event > Expected Number of Occurrences - Actual |
| *Economic section* | |
| Expected loss per occurrence | Insight Risk Event > Expected Conditional Economic Impact - Actual |
| Expected annual loss | Insight Risk Event > Expected Annual Economic Impact – Actual |
| Value at risk at *n%* | Insight Risk Event >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional value at risk at *n%* | Insight Risk Event >   * 10% CVaR - Actual * 5% CVaR - Actual * 1% CVaR - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Total section | |
| Expected impact per occurrence | Insight Risk Event > Expected Conditional Total Impact – Actual |
| Expected annual impact | Insight Risk Event > Expected Annual Total Impact - Actual |

### Fields for Assessment Type: Actual and Inherent

The following table lists the fields that support the Actual and Inherent assessment type and their corresponding fields in Archer.

| Assessment Type | Section | Field | Archer Field |
| --- | --- | --- | --- |
| Actual and Inherent | General Information | Name | Insight Risk Event > Risk Event Name |
| Exclude from aggregations | Insight Risk Event > Exclude from Aggregations |
| Status | Insight Risk Event > Status |
| Parent Risk | Insight Risk Event > Risk |
| Description | Insight Risk Event > Risk Event Description |
| Number of Occurrences | Inherent Rate | Insight Driver > Rate |
| Actual Rate | Insight Control Probability > Probability of Success |
| Insight Driver > Driver Instances  **Note:** Not shown in Archer Insight. |
| Insight Driver Probability > Risk Probability  **Note:** Not shown in Archer Insight. Always set to 1. |
| Value of preventive controls | Insight Control Probability > Value of Control (VoC) – Actual |
| Consequence General Information | Consequence Name | Insight Consequences > Consequence Name |
| Exclude from aggregations | Insight Consequences > Exclude from Aggregations |
| Status | Insight Consequences > Status |
| Aggregation Hierarchies | Insight Consequences MRDC fields with alias pattern of Hierarchy\_*XX* |
| Description | Insight Consequences > Description |
| Impact Type | Insight Consequences > Impact Type |
| Financial Consequences | Actual Minimum Impact | Insight Consequence > Minimum Impact |
| Actual Median Impact | Insight Consequence > Median Impact |
| Actual Downside Impact | Insight Consequence > Downside Impact |
| Inherent Minimum Impact | **Note:** Dynamically calculated to generate inherent curve, but not saved. |
| Inherent Minimum Impact | **Note:** Dynamically calculated to generate inherent curve, but not saved. |
| Inherent Downside Impact | **Note:** Dynamically calculated to generate inherent curve, but not saved. |
| Insight Consequence > Conditional Probability Consequence Occurs  **Note:** Not shown in Archer Insight. Always set to 1. |
| Reduction Factor | Insight Control Probability > Impact Reduction (Percentage) |
| Insight Control Probability > Probability of Success  **Note:** Not shown in Archer Insight. Always set to 1. |
| Value of mitigating controls | Insight Control Probability > Value of Mitigation (VoM) – Actual |
| Expected Annual Loss (actual) | Insight Consequences > Expected Annual Impact - Actual |
| Value at Risk at *n%* (actual) | Insight Consequences >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional Value at Risk at *n%* (actual) | Insight Consequences >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Expected Annual Loss (inherent) | Insight Consequences > Expected Annual Impact - Inherent |
| Value at Risk at *n%* (inherent) | Insight Consequences >   * P90 (10% VaR) - Inherent * P95 (5% VaR) - Inherent * P99 (1% VaR) - Inherent   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional Value at Risk at *n%* (inherent) | Insight Consequences >   * P90 (10% VaR) - Inherent * P95 (5% VaR) - Inherent * P99 (1% VaR) - Inherent   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Non-Financial Consequences | Minimum Impact Level | Insight Consequence > Minimum Impact Level |
| Most Likely Impact Level | Insight Consequence > Most Likely Impact Level |
| Maximum Impact Level | Insight Consequence > Maximum Impact Level |
| Inherent Minimum Impact Level | **Note:** Dynamically calculated to generate inherent curve, but not saved. |
| Inherent Most Likely Impact Level | **Note:** Dynamically calculated to generate inherent curve, but not saved. |
| Inherent Maximum Impact Level | **Note:** Dynamically calculated to generate inherent curve, but not saved. |
| Insight Consequence > Conditional Probability Consequence Occurs  **Note:** Not shown in Archer Insight. Always set to 1. |
| Impact Level Reduction | Insight Control Probability > Non-Financial Number of Levels of Reduction |
| Insight Control Probability > Probability of Success  **Note:** Not shown in Archer Insight. Always set to 1. |
| Overview | Status | Insight Risk Event > Status |
| Parent Risk | Insight Risk Event > Risk |
| Aggregation Hierarchies | Risks > MRDC fields with alias pattern of Hierarchy\_*XX* |
| Quantification Metrics - Actual | Rate | Insight Risk Event > Expected Number of Occurrences - Actual |
| Economic section | |
| Expected loss per occurrence | Insight Risk Event > Expected Conditional Economic Impact - Actual |
| Expected annual loss | Insight Risk Event > Expected Annual Economic Impact – Actual |
| Value at risk at *n%* (actual) | Insight Risk Event >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional value at risk at *n%* (actual  ) | Insight Risk Event >   * 10% CVaR - Actual * 5% CVaR - Actual * 1% CVaR - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| *Total section* | |
| Expected impact per occurrence | Insight Risk Event > Expected Conditional Total Impact – Actual |
| Expected annual impact | Insight Risk Event > Expected Annual Total Impact - Actual |
| Quantification Metrics - Inherent | Rate | Expected Number of Occurrences - Inherent |
| Economic section | |
| Expected loss per occurrence | Expected Conditional Economic Impact - Inherent |
| Expected annual loss | Expected Annual Economic Impact - Inherent |
| Value at risk at *n%* (actual) | Insight Risk Event >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional value at risk at *n%* (actual) | Insight Risk Event >   * 10% CVaR - Actual * 5% CVaR - Actual * 1% CVaR - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Total section | |
| Expected impact per occurrence | Expected Conditional Total Impact - Inherent |
| Expected annual impact | Expected Annual Total Impact - Inherent |

### Fields for Assessment Type: Control Specification

The following table lists the fields that support the Control Specification assessment type and their corresponding fields in Archer.

| Assessment Type | Section | Field | Archer Field |
| --- | --- | --- | --- |
| Control Specification | General Information | Name | Insight Risk Event > Risk Event Name |
| Status | Insight Risk Event > Exclude from Aggregations |
| Exclude from aggregations | Insight Risk Event > Status |
| Parent Risk | Insight Risk Event > Risk |
| Initiation Categories - Initiation Categories grid | Initiation Category | Insight Drivers > Name |
| Contribution to Rate > Proportion | **Note:** Dynamically calculated, but not saved. |
| Contribution to Rate > Full | Insight Driver Probability > Expected Number of Occurrences - Full |
| Contribution to Rate > Actual | Insight Driver Probability > Expected Number of Occurrences - Actual |
| Probability of Success > Full | **Note:** Dynamically calculated, but not saved. |
| Probability of Success > Actual | **Note:** Dynamically calculated, but not saved. |
| Initiation Categories > Control sub-grid | Control | Control Procedures > Procedure Name |
| Probability of Success > Full | Insight Control Probability > Probability of Success |
| Probability of Success > Lifecycle | Control Procedures > Lifecycle Status |
| Probability of Success > Compliance | Control Procedures > Compliance |
| Probability of Success > Actual | Insight Driver Probability > Actual Probability of Success |
| Value of Preventive Control > Full | Insight Control Probability > Value of Control (VoC) - Full |
| Value of Preventive Control > Actual | Insight Control Probability - Value of Control (VoC) - Actual |
| Number of Occurrences | Inherent Rate | Insight Risk Event > Expected Number of Occurrences - Inherent |
| Full Rate | Insight Risk Event > Expected Number of Occurrences - Full |
| Actual Rate | Insight Risk Event > Expected Number of Occurrences - Actual |
| Consequence General Information | Name | Insight Consequences > Consequence Name |
| Exclude from aggregations | Insight Consequences > Exclude from Aggregations |
| Status | Insight Consequences > Status |
| Aggregation Hierarchies | Insight Consequences > MRDC fields with alias pattern of Hierarchy\_*XX* |
| Description | Insight Consequences > Description |
| Impact Type | Insight Consequences > Impact Type |
| Financial Consequences | Inherent Minimum Impact | Insight Consequences > Minimum Impact |
| Inherent Median Impact | Insight Consequences > Median Impact |
| Inherent Downside Impact | Insight Consequences > Downside Impact |
|  | Expected Annual Loss (actual) | Insight Consequences > Expected Annual Impact - Actual |
|  | Value at Risk at *n%*(actual) | Insight Consequences >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
|  | Conditional Value at Risk at *n%* (actual) | Insight Consequences >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
|  | Expected Annual Loss (inherent) | Insight Consequences > Expected Annual Impact - Inherent |
|  | Value at Risk at *n%* (inherent) | Insight Consequences >   * P90 (10% VaR) - Inherent * P95 (5% VaR) - Inherent * P99 (1% VaR) - Inherent   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
|  | Conditional Value at Risk at *n%* (inherent) | Insight Consequences >   * P90 (10% VaR) - Inherent * P95 (5% VaR) - Inherent * P99 (1% VaR) - Inherent   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
|  | Expected Annual Loss (full) | Insight Consequences > Expected Annual Impact - Full |
|  | Value at Risk at *n%*(full) | Insight Consequences >   * P90 (10% VaR) - Full * P95 (5% VaR) - Full * P99 (1% VaR) - Full   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
|  | Conditional Value at Risk at *n%* (full) | Insight Consequences >   * P90 (10% VaR) - Full * P95 (5% VaR) - Full * P99 (1% VaR) - Full   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Financial Consequences > Impact Table | Minimum Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Minimum Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Median Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Median Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Downside Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Downside Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Expected Impact Per Occurrence - Inherent | Insight Consequences ->Expected Conditional Consequence Impact - Inherent |
| Expected Impact Per Occurrence - Full | Insight Consequences ->Expected Conditional Consequence Impact - Full |
| Expected Impact Per Occurrence - Actual | Insight Consequences ->Expected Conditional Consequence Impact - Actual |
| Annual Financial Impact - Inherent | Insight Consequences ->Expected Consequence Impact - Inherent |
| Annual Financial Impact - Full | Insight Consequences ->Expected Consequence Impact - Full |
| Annual Financial Impact - Actual | Insight Consequences ->Expected Consequence Impact - Actual |
| Financial Consequences - Mitigation Grid | Mitigation | Control Procedure > Procedure Name |
| Reduction Factor | Insight Control Probability > Impact Reduction (Percentage) |
| Probability of Success > Full | Insight Control Probability > Probability of Success |
| Probability of Success > Lifecycle | Control Procedures > Lifecycle Status |
| Probability of Success > Compliance | Control Procedures > Compliance |
| Probability of Success > Actual | Insight Control Probability > Actual Probability of Success |
| Value of Mitigating Control > Full | Insight Control Probability > Value of Mitigation (VoM) - Full |
| Value of Mitigating Control > Actual | Insight Control Probability > Value of Mitigation (VoM) - Actual |
| Non-Financial Consequences | Inherent Minimum Impact Level | Insight Consequences > Minimum Impact Level |
| Inherent Most Likely Impact Level | Insight Consequences > Most Likely Impact Level |
| Inherent Maximum Impact Level | Insight Consequences > Maximum Impact Level |
| Non-Financial Consequences Impact Table | Minimum Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Minimum Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Mostly Likely Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Mostly Likely Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Maximum Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Maximum Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Expected Impact Per Occurrence - Inherent | Insight Consequences -> Expected Conditional Consequence Impact (Utility Scale) - Inherent |
| Expected Impact Per Occurrence - Full | Insight Consequences -> Expected Conditional Consequence Impact (Utility Scale) - Full |
| Expected Impact Per Occurrence - Actual | Insight Consequences -> Expected Conditional Consequence Impact (Utility Scale) - Actual |
| Annual Impact - Inherent | **Note:** Dynamically calculated, but not saved. |
| Annual Impact - Full | **Note:** Dynamically calculated, but not saved. |
| Annual Impact - Actual | **Note:** Dynamically calculated, but not saved. |
| Non-Financial Consequences - Mitigation Grid | Mitigation | Control Procedures > Procedures Name |
| Impact Reduction Level | Insight Control Probability > Non-Financial Number of Levels of Reduction |
| Probability of Success > Full | Insight Control Probability > Probability of Success |
| Probability of Success > Lifecycle | Control Procedures > Lifecycle Status |
| Probability of Success > Compliance | Control Procedures > Compliance |
| Probability of Success > Actual | Insight Control Probability -> Actual Probability of Success |
| Overview | Status | Insight Risk Event > Status |
| Parent Risk | Insight Risk Event > Risk |
| Aggregation Hierarchies | Risks > MRDC fields with alias pattern of Hierarchy\_*XX* |
| Quantification Metrics - Actual | Rate | Insight Risk Event > Expected Number of Occurrences - Actual |
| Economic section | |
| Expected loss per occurrence | Insight Risk Event > Expected Conditional Economic Impact - Actual |
| Expected annual loss | Insight Risk Event > Expected Annual Economic Impact – Actual |
| Value at risk at *n%* | Insight Risk Event >   * P90 (10% VaR) - Actual * P95 (5% VaR) - Actual * P99 (1% VaR) - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional value at risk at *n%* | Insight Risk Event >   * 10% CVaR - Actual * 5% CVaR - Actual * 1% CVaR - Actual   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Total section | |
| Expected impact per occurrence | Insight Risk Event > Expected Conditional Total Impact – Actual (Utility Scale) |
| Expected annual impact | Insight Risk Event > Expected Annual Total Impact – Actual (Utility Scale) |
| Quantification Metrics - inherent | Rate | Insight Risk Event > Expected Number of Occurrences - Inherent |
| Economic section | |
| Economic impact per occurrence | Insight Risk Event > Expected Conditional Economic Impact - Inherent |
| Annual economic impact | Insight Risk Event > Expected Annual Economic Impact - Inherent |
| Value at risk at *n%* | Insight Risk Event >   * P90 (10% VaR) - Inherent * P95 (5% VaR) - Inherent * P99 (1% VaR) - Inherent   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional value at risk at *n%* | Insight Risk Event >   * 10% CVaR - Inherent * 5% CVaR - Inherent * 1% CVaR - Inherent   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Total section | |
| Total impact per occurrence | Insight Risk Event > Expected Conditional Total Impact – Inherent (Utility Scale) |
| Annual total impact | Insight Risk Event > Expected Annual Total Impact – Inherent (Utility Scale) |
| Quantification Metrics - full | Rate | Insight Risk Event > Expected Number of Occurrences - Full |
| Economic section | |
| Economic impact per occurrence | Insight Risk Event > Expected Conditional Economic Impact - Full |
| Annual economic impact | Insight Risk Event > Expected Annual Economic Impact - Full |
| Value at risk at *n%* | Insight Risk Event >   * P90 (10% VaR) - Full * P95 (5% VaR) - Full * P99 (1% VaR) - Full   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Conditional value at risk at *n%* | Insight Risk Event >   * 10% CVaR - Full * 5% CVaR - Full * 1% CVaR - Full   **Note:** Which one of the above fields displays depends on the *n%* VaR/CVaR level you defined in the Corporate Global Variables application. |
| Total section | |
| Total impact per occurrence | Insight Risk Event > Expected Conditional Total Impact – Full (Utility Scale) |
| Annual total impact | Insight Risk Event > Expected Annual Total Impact – Full (Utility Scale) |