Access Rights Adjustment

1.0 Access Rights Adjustment (ARA)

1.1 General Description
Access Rights Adjustment measures the overall timeliness of the organization’s review of access rights for systems or property with impact on supply chain security.

1.2 Purpose
This measurement is used to quantify the timeliness in the completion of scheduled access right reviews which will help prevent unauthorized access.

1.3 Applicable Business Categories
This measurement applies to all business categories.

1.4 Detailed Description

a) Terminology
   - Access rights – Privileges assigned to anyone related to the use of computer systems or physical access to areas controlled by the organization
   - Supply chain security impact – an event or conditions with potential impact on the security of organizations within the supply chain
   - Privileged access – a user that is authorized (and therefore trusted) to perform security relevant functions that ordinary users are not authorized to perform. Note – NIST On-line Glossary source special publication 800-171 and 800-53

b) Counting Rules
   1) The organization shall conduct periodic reviews of access rights.
   2) The results of those reviews shall be reported monthly.
   3) Any instance where access rights were not adjusted within the time frame determined by the organization’s documented policy shall be counted as late.
   4) Ever instance falling within the review period of a chance in circumstance of an employee, contractor, or anyone else for which access rights are applicable shall be included.
   5) Events for which time frames for adjustment are established shall include as a minimum hiring, firing, quitting, and reassignment.

c) Counting Rule Exclusions
   1) Any event involving an employee with no specified access shall be excluded.
Access Rights Adjustment

d) Calculations and Formulas

Table 1-1 ARA Notation

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Business Categories</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARc</td>
<td>All</td>
<td>Number access right adjustments due in the month and not completed on time</td>
</tr>
<tr>
<td>ARd</td>
<td>All</td>
<td>Number of access rights adjustments due in the month</td>
</tr>
</tbody>
</table>

Table 1-2 ARR Measurement Identifiers and Formulas

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Title</th>
<th>Formula</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARA</td>
<td>Access Rights Adjustment</td>
<td>100 x (ARc / ARd)</td>
<td>% completed on time</td>
</tr>
</tbody>
</table>

Table 1-3 ARR Data Table

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MeasurementID</td>
<td>ARA</td>
</tr>
<tr>
<td>ARc</td>
<td>Number access right adjustments due in the month and not completed on time</td>
</tr>
<tr>
<td>ARd</td>
<td>Number of access rights adjustments due in the month</td>
</tr>
</tbody>
</table>

1.5 Sources of Data

Data for the ARR measurement are derived from

1) the organization’s access rights adjustment documented schedule
2) the organization’s access rights adjustment completion records

1.6 Example Calculations

TBD