PRODUCT ASSESSMENT

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<tr>
<th>Focus Area Editor:</th>
<th>Marvin Doran, Nortel Networks</th>
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<tr>
<td>Focus Area Champion:</td>
<td>Marcello Melgara, CSELT</td>
</tr>
<tr>
<td>Focus Area Session Chair</td>
<td>Wendell Jones, Nortel Networks</td>
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Participants

- **Definition**
- **Metrics**
- **Best Practices**
- **World Class Performance**
- **Best-in-Class Recognition**

I. DEFINITION

Product Assessment is verification and validation of the specified functionality and, if applicable, development cycle.

NOTES

- Functionality is taken to mean operational characteristics.
- Specified was decided after considering desired, expected, etc.
- Addition of development cycle is a good inclusion in this decision.

Product Assessment is not . . .
- Price assessment
- Produce decision-making (product decision)

II. METRICS

Product Assessment can best be measured by . . .

- Applicable ISO Metrics
- Bellcore Standards
- Industry Standards
- Customer Specific Measurements
Material from 1999 Workshop:

Why metrics?
- Predict outgoing quality
- Forecast product quality (in the field)
- Benchmark, historical

Characteristics of measurement / metrics
- Should be as much as possible person independent
- Should be planned, with adequate resources
- Ability to do valid predictions depends on process maturity

Metrics during deployment stage
- Bellcore RQMS - field
- Industry TL9000 requirements handbook and metrics (includes some of RQMS, but not IPQM)

Need more pragmatic metrics
- To monitor process (prior to delivery)
  - milestones passed/failed, size,
- To trace faults that occurred in previous products
  - hard to measure

When to do product assessment?
- Verification, Validation, During deployment
  (should use IPQM - during development)

Sample recommended development metrics
- % features and functions tested
- # of detected issues
  - (% of these resolved)
  - (% of these still open)
  - (However, we don’t have a measure of the remaining bugs we have not seen yet!)

Discussion on Best Practices:
- Knowing which metrics are already applied
- Choose metrics that assess the development process
- Choose metrics that predict product risk level and quality level
III. PARTICIPANTS

The working group participants consisted of the following industry professionals.

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<tr>
<th>NAME</th>
<th>TITLE</th>
<th>COMPANY</th>
<th>STATE/COUNTRY</th>
</tr>
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<tbody>
<tr>
<td>Dietl, Thomas</td>
<td>Dipl.-Ing. Univ.</td>
<td>Deutsche Telekom AG</td>
<td>Nurnberg, Germany</td>
</tr>
<tr>
<td>Doran, Marvin</td>
<td>Mem. Sci. Staff</td>
<td>Nortel</td>
<td>Ontario, Canada</td>
</tr>
<tr>
<td>Fakiri, Haroon</td>
<td>Qual/Relia. Engineering, Manager</td>
<td>Ascend Comm.</td>
<td>California, U.S.A.</td>
</tr>
<tr>
<td>Healy, John</td>
<td>Chief Scientist</td>
<td>Telcordia Technologies</td>
<td>New Jersey, U.S.A.</td>
</tr>
<tr>
<td>Jones, Wendell</td>
<td>Head of Scientific Research</td>
<td>EMERALD – Nortel Networks</td>
<td>North Carolina, U.S.A.</td>
</tr>
<tr>
<td>Melgara, Marcello</td>
<td>.</td>
<td>CSELT</td>
<td>Torino, Italy</td>
</tr>
<tr>
<td>Yekan, Majid</td>
<td>Director Corp. Quality Systems</td>
<td>Ascend</td>
<td>California, U.S.A.</td>
</tr>
<tr>
<td>Yohe, Thomas</td>
<td>Principle Reliability Engineer</td>
<td>Alcatel USA</td>
<td>Texas, U.S.A.</td>
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