Evolution to resilient cyber security

Towards an assumed state of compromise

"Resilient Cyber Security"

“Layered Security”

“Perimeter Security”

“Inclusion & Exclusion Security”

1980s 1990s 2000s 2010+

Technology Reliance/Complexity

Time

October 2013

Slide 2
Some context

The risks are increasing

They are getting harder to defend against

The stakes are being raised

There are plenty of worrying statistics

93%

£450-850,000
### How the threat is evolving

<table>
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<tr>
<th>Motivators</th>
<th>Threat Vectors</th>
<th>Impact</th>
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<tbody>
<tr>
<td><strong>Nation States</strong></td>
<td>• Targeted, long term cyber campaigns with strategic focus</td>
<td>• Loss of R&amp;D intellectual capital</td>
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<td>• Disruption to critical infrastructure</td>
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<td><strong>Cyber Criminals</strong></td>
<td>• Elicit profit</td>
<td>• Loss of identity</td>
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<td></td>
<td>• Fraud</td>
<td>• Monetary loss</td>
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<td><strong>Cyber Terrorists</strong></td>
<td>• Ideological</td>
<td>• Intellectual property loss</td>
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<td>• Political</td>
<td>• Privacy</td>
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<td>• Malicious havoc</td>
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<td><strong>Hacktivists</strong></td>
<td>• Political cause rather than personal gain</td>
<td>• Destabilize, disrupt and destroy cyber assets of corporations and enemy nations</td>
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<td>• Targeted organizations that stand in the way of their cause</td>
<td>• Disruption of operations</td>
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<td>• Destabilization</td>
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<td>• Embarrassment</td>
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More sophisticated, more varied objectives and goals, more unpredictable

### Harder to defend

- Technology-led innovation has enabled business models to evolve.
- The extended enterprise has moved beyond supply chain and consumer integration.
- Connectivity and collaboration now extends to all facets of business.
- Creating a dynamic environment that is increasingly interconnected, integrated, and interdependent.
- Where changing business drivers create opportunity and risk.
The stakes are rising

“The time has come for a step change in the way Europe addresses Internet security issues.”

Source: Proposal on a European Strategy for Internet Security, Q3 2012

Re-assessing your response to cyber risk

Current state
Cyber resilient state
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