

Microsoft Security Development Lifecycle (SDL) Evolution

TwC Next: Marking a Milestone. Continuing Our Commitment.

The Microsoft SDL is the industry-leading software security assurance process. A Microsoft wide initiative and mandatory policy since 2004, the Microsoft Security Development Lifecycle (SDL) has played a critical role in improving the security and privacy of Microsoft software and services with the goal of reducing customer risk. Combining a holistic

and practical approach, the Microsoft SDL embeds security and privacy throughout the development process. We believe that by freely sharing the SDL resources, tools, and collaborating with the industry on secure application development, together we can help build safer more trusted computing experiences for everyone.

2000 2001

The "Perfect Storm"



- Growth of Home PCs
- Rise of Malicious Software
- Increasing Privacy Concerns
- Internet Use Expansion

2002 2003 2004

SDL Ramp Up



- Bill Gates' TwC Memo
- Microsoft Security Push
- Microsoft SDL Launched
- SDL Becomes Mandatory Policy at Microsoft
- Windows XP SP2 and Windows Server 2003 Launched with Security Emphasis

2005 2006 2007

Setting a New Bar



- Windows Vista and Office 2007 Fully Integrate the SDL
- SDL Released to Public
- Data Execution Prevention (DEP) & Address Space Layout Randomization (ASLR) Introduced as Features
- Threat Modeling Tool Launches

2008 2009 2010 2011

Collaboration



- Microsoft joins SAFECode
- Microsoft Establishes SDL Pro Network
- Defense Information Systems Agency (DISA) & National Institution Standards and Technology (NIST) Specify Practices Featured in the SDL
- Microsoft Collaborates with Adobe and Cisco on SDL Practices
- MidAmerican Energy Adopts SDL Practices
- SDL Released Under the Creative Commons License

2012~

TwC Next



- Additional resources dedicated to address projected growth in Mobile app downloads*
- Industrywide Acceptance of Practices Aligned with SDL
- Adaptation of SDL to New Technologies and Changes in the Threat Landscape
- Increased Industry Resources to Enable Global Secure Development Adoption