RBS-2019-008

Looyu DyLooyu ActiveX Control
CreateCom() Method Handling Stack Buffer Overflow
Vulnerable Program Details

Details for tested products and versions:

Vendor: Looyu
Product: DyLooyu ActiveX Control (dyLooyu.dll)
Version: 1.0.0.1

NOTE: Other versions than the one listed above are likely affected.

Credits

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Impact

The DyLooyu ActiveX control (dyLooyu.dll) contains a stack-based buffer overflow that may allow an attacker to compromise a user’s system.

Vulnerability Details

One of the methods provided by the DyLooyu ActiveX Control is CreateCom(), which accepts two arguments as defined below:

```
[id(0x00000002), helpstring("method CreateCom")]
IDispatch* CreateCom(
    [in] BSTR name,
    [in] BSTR bversion);
```

When the method is called, the function responsible for handling it eventually ends up calling a function to create a path to a file based on the “name” argument. The function first retrieves the path to the system directory...
... before it then constructs a path using calls to `sprintf()` without performing any boundary checks.

This may allow an attacker to cause a stack-based buffer overflow and gain control of the execution flow by overwriting the return address.

**Solution**

We are not currently aware of an updated version, and the vulnerable ActiveX control is still available for download. Users are encouraged to delete it from their systems.

**References**

RBS: RBS-2019-008
VulnDB: 202057

## Timeline

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<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>2019-01-31</td>
<td>Vulnerability discovered.</td>
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<tr>
<td>2019-02-01</td>
<td>Vulnerability reported to KrCERT/CC, who sent it to CNCERT.</td>
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<td>2019-04-04</td>
<td>Alert published to VulnDB customers.</td>
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<td>2019-05-21</td>
<td>Publication of this vulnerability report.</td>
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2019-05-21
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