Date: 5/17/2019
Author: Software Engineering

System: Apex  Subsystem: Microsoft
Subsystem: Windows OS 7

Subject: Microsoft Windows 7 OS Patch release April 2019

Purpose:
To release the list of validated Microsoft critical patches on the Apex systems.

Note: If you are using the following versions of APEX, if you are required to update to the latest Hologic validated Windows updates, you must ensure your system(s) have been patched with the "Sentinel Run-Time 7.80.0.0 " which can be located in the Windows Control Panel "Program and Features". If needed you can install the patch by ordering "APEX Service Dongle Patch Release" (ASY-12610). Please contact Hologic Support if you have any questions.

<table>
<thead>
<tr>
<th>System Type</th>
<th>Software Versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon</td>
<td>APEX v5.5 – v5.6.0.5</td>
</tr>
<tr>
<td>Discovery</td>
<td>APEX v4.0 – v4.6.0.3</td>
</tr>
<tr>
<td>Workstation</td>
<td>APEX v4.0 – v5.6.0.5</td>
</tr>
</tbody>
</table>

List of patches/KB’s validated for April 2019:

- KB4493472
- KB4493448
- KB4493435
- KB4490628
- KB4490128
- KB4489885
- KB4486564
- KB4486459
- KB4483458
- KB4483451
- KB4480960
- KB4474419
List of all patches/KB's validated on the Apex System:

<table>
<thead>
<tr>
<th>KB976932</th>
<th>KB4493472</th>
<th>KB4493448</th>
<th>KB4493435</th>
</tr>
</thead>
<tbody>
<tr>
<td>KB4490628</td>
<td>KB4490128</td>
<td>KB4489885</td>
<td>KB4486564</td>
</tr>
<tr>
<td>KB4486459</td>
<td>KB4483458</td>
<td>KB4483451</td>
<td>KB4483187</td>
</tr>
<tr>
<td>KB4480960</td>
<td>KB4474419</td>
<td>KB4471328</td>
<td>KB4467106</td>
</tr>
<tr>
<td>KB4462915</td>
<td>KB4457145</td>
<td>KB4457044</td>
<td>KB4457035</td>
</tr>
<tr>
<td>KB4343899</td>
<td>KB4338823</td>
<td>KB4284867</td>
<td>KB4103712</td>
</tr>
<tr>
<td>KB4096418</td>
<td>KB4093108</td>
<td>KB4074587</td>
<td>KB4056897</td>
</tr>
<tr>
<td>KB4054521</td>
<td>KB4048960</td>
<td>KB4041678</td>
<td>KB4019990</td>
</tr>
<tr>
<td>KB3177467</td>
<td>KB3172605</td>
<td>KB3161949</td>
<td>KB3159398</td>
</tr>
<tr>
<td>KB3156016</td>
<td>KB3150220</td>
<td>KB3139914</td>
<td>KB3139398</td>
</tr>
<tr>
<td>KB3138910</td>
<td>KB3138612</td>
<td>KB3127220</td>
<td>KB3126587</td>
</tr>
<tr>
<td>KB3124275</td>
<td>KB3122648</td>
<td>KB3110329</td>
<td>KB3109560</td>
</tr>
<tr>
<td>KB3109103</td>
<td>KB3108664</td>
<td>KB3108371</td>
<td>KB3101722</td>
</tr>
<tr>
<td>KB3097989</td>
<td>KB3093513</td>
<td>KB3086255</td>
<td>KB3078601</td>
</tr>
<tr>
<td>KB3075226</td>
<td>KB3074543</td>
<td>KB3072305</td>
<td>KB3071756</td>
</tr>
<tr>
<td>KB3067903</td>
<td>KB3061518</td>
<td>KB3060716</td>
<td>KB3059317</td>
</tr>
<tr>
<td>KB3055642</td>
<td>KB3046269</td>
<td>KB3046017</td>
<td>KB3045685</td>
</tr>
<tr>
<td>KB3042058</td>
<td>KB3037574</td>
<td>KB3035126</td>
<td>KB3031432</td>
</tr>
<tr>
<td>KB3030377</td>
<td>KB3023215</td>
<td>KB3022777</td>
<td>KB3021674</td>
</tr>
<tr>
<td>KB3020388</td>
<td>KB3011780</td>
<td>KB3010788</td>
<td>KB3004375</td>
</tr>
<tr>
<td>KB2992611</td>
<td>KB2991963</td>
<td>KB2984972</td>
<td>KB2978742</td>
</tr>
<tr>
<td>KB2977292</td>
<td>KB2973201</td>
<td>KB2973112</td>
<td>KB2972100</td>
</tr>
<tr>
<td>KB2968294</td>
<td>KB2943357</td>
<td>KB2937610</td>
<td>KB2931356</td>
</tr>
<tr>
<td>KB2923545</td>
<td>KB2912390</td>
<td>KB2911501</td>
<td>KB2894854</td>
</tr>
<tr>
<td>KB2894844</td>
<td>KB2893294</td>
<td>KB2884256</td>
<td>KB2871997</td>
</tr>
<tr>
<td>KB2868038</td>
<td>KB2864202</td>
<td>KB2862335</td>
<td>KB2862330</td>
</tr>
<tr>
<td>KB2862152</td>
<td>KB2861698</td>
<td>KB2857650</td>
<td>KB2852386</td>
</tr>
<tr>
<td>KB2847927</td>
<td>KB2840631</td>
<td>KB2834140</td>
<td>KB2830477</td>
</tr>
<tr>
<td>KB2813430</td>
<td>KB2813347</td>
<td>KB2807986</td>
<td>KB2786081</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>KB2770660</td>
<td>KB2742599</td>
<td>KB2736422</td>
<td>KB2729094</td>
</tr>
<tr>
<td>KB2727528</td>
<td>KB2705219</td>
<td>KB2698365</td>
<td>KB2690533</td>
</tr>
<tr>
<td>KB2670838</td>
<td>KB2667402</td>
<td>KB2654428</td>
<td>KB2639308</td>
</tr>
<tr>
<td>KB2631813</td>
<td>KB2621440</td>
<td>KB2620704</td>
<td>KB2604115</td>
</tr>
<tr>
<td>KB2579686</td>
<td>KB2574819</td>
<td>KB2564958</td>
<td>KB2560656</td>
</tr>
<tr>
<td>KB2552343</td>
<td>KB2533552</td>
<td>KB2532531</td>
<td>KB2506212</td>
</tr>
<tr>
<td>KB2491683</td>
<td>KB2479943</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>