ThreatFactor NSIA - Feature #62

Parse CSS and JavaScript in Detection Engine

04/08/2010 11:40 PM - Luke Murphey

Status:	New		**Start date:**	04/08/2010
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:	Scan Engine		**Estimated time:**	0.00 hour
Target version:				

Description

NSIA should incorporate a parser for JavaScript and CSS in order to improve the capability of the scanner. Below are the value-added analysis that the extended parsing would add:

CSS Parser

- Identify bad CSS declarations
- Identify content that is included via CSS

JavaScript/VBScript Parser

- Identify attempts to instantiate objects (such as Shockwave Flash instances)
- Could perform heuristics
- Could identify bad JavaScript syntax

Related issues:

Blocked by ThreatFactor NSIA - Feature #227: Ability for ThreatScripts to Add...	**Closed**	**11/05/2010**	**11/05/2010**

History

#1 - 04/08/2010 11:44 PM - Luke Murphey

For this to be done, a compiler grammar should be used to parse the content. The following projects could be used:

- JavaCC
- ANTLR

For JavaCC:

- JavaScript
- VB Script (Note: this is for VB6 but should work for VB scripts.
- CSS

For ANTLR:

- JavaScript
- JavaScript
- VB Script (part of ASPA)
- CSS

#2 - 11/02/2010 01:12 PM - Luke Murphey

- Category set to Scan Engine