

A

- adopting new technologies, 55–56
- advanced site architecture implementations, 53
- advertising e-support, 20
- alerting customers to reorganized content, 60
- analyzing
 - cases, 115
 - configuration-based, 116
 - method for predicting future trends, 120
 - resolution methods, 170–171
 - competitor sites, benefits of, 108
- applications, in-house development versus purchasing, 56
- applying metrics to tools, 171
- architecture, 51–52
 - advanced site architecture, 53
 - organization, importance of, 59
- assessing
 - customer competence, 71
 - customer needs, 20
 - performance of CSEs, 77
 - site architecture, 52–53
- audience
 - communicating with, GEM cycle, 72–73
 - demographics, intelligence gathering, 82–83
 - targeting for online documentation, 186–187
- autonomy of TAC Web site marketing, 68

B

- bandwidth, monitoring customer traffic, 61
- benefits of competitive analysis, 108
- beta testing tools, 163–164
- break-fix troubleshooting methodology versus misconfiguration-based, 63–64
- browser-based support versus Internet-based, 54
- budgeting, 23
- Bug Toolkit, 48
- bugs, publishing, 48

C

- call center
 - GCC, 163
 - identifying Web site resolvable cases, 96
- call-based case resolution, 117
 - versus Web-based, 119
- case analysis
 - predicting future trends, 120
 - ranking cases, 115
- Case Open Tool (TAC Web site), 14
- cases
 - categories of, 34
 - configuration-based, 116
 - documentation involved, 148–149
 - opening, 36
 - resolving
 - call-based versus Web-based, 117
 - role of CSEs, 117
 - streamlining process, 164
 - TAC versus TAC Web, 41
 - tools versus documents, 164
 - Web-based resolution, encouraging, 117
- categorizing
 - cases notes, 114
 - documentation, 187
- challenges
 - of marketing support, 81
 - of TAC Web teams, 45
- classifications of tools, 160
- communication
 - measuring efficacy, 73
 - inter-departmental, 79
- communities, 139
 - content mining, 150
 - information gathering, 140
 - metrics, 141
 - starting, 145
- comparing tools and search, 157
- competency of audience, 70–71, 119

- competitor sites, 26
 - analysis, benefits of, 108
 - content, evaluating, 104
 - documentation, evaluating, 106
 - evaluating, 86, 103–105
 - non-English, evaluating, 107
 - searchable knowledge base, evaluating, 107
 - usability studies, 109
 - using metrics to gain advantage, 27
- complexity of cases as criteria for human intervention, 165–166
- conducting surveys
 - as metric, 19
 - TAC Web user surveys, 92–96
- configuration-based cases, 116
- content
 - managing, 114
 - organization, importance of, 57
 - robustness, 150
- core audience, communicating with, 73
- creating documentation, 184–185
- criteria
 - for project managers, 175
 - for tool development, 158–159
- cross functionality of TAC support teams, 46
- CSEs, 147–148
 - case resolution
 - methodologies, 35–36
 - role in, 117
 - product development, 46
- customers
 - educating, 21
 - feedback
 - incorporating in tool development process, 163
 - intelligence gathering, 73–74, 82–83
 - processing, 150
 - regarding incorrect information, 183
 - responding to, 162
 - internal users, 174
 - needs of, assessing, 20
 - site architecture, 52–53
 - via marketing department, 69
 - profiling project, 133

- traffic
 - bandwidth, monitoring, 61
 - demographic analysis, 62
 - monitoring, 58
 - navigating through reorganized content, 60
 - search-based versus navigation-based, 59
- cutting-edge technologies, researching, 54–55
- CVT (config-verify-troubleshoot) strategy, 21

D

- databases, retrieving case information, 114
- demand for support
 - assessing customer needs, 20
 - hardware/software support, 18
- demographics
 - analysis, 62
 - intelligence gathering, 82–83
 - profile data
 - benefits of, 134
 - gathering, 133
- departments
 - communication between, 79
 - within marketing, 74–76
- designing
 - intuitive tools, 173
 - user interfaces, 124–125
- developing
 - products, 29
 - tools, 158–159
 - classifications, 160
 - feedback, 161
 - implementing customer feedback, 162–163
 - in-house, 169
 - intuitive design, 173
 - intuitive names, importance of, 160
 - security, 21
 - usability testing, 163–164
 - verifying need for, 170
- devices, providing support for misconfiguration, 63–64
- documentation
 - case requirements, 148–149
 - categorizing, 187

- creating, 184–185
- developing, 29
- measuring success of, 192
- of competitor sites, evaluating, 106
- maintenance, 183
- resolving highly technical cases, 185
- review process, 182
- role of tech writers, 180
- search tools, 188–190
- tagging, 150–151
- target audience, 186–187
- Top Issues, 189
- updating with customer feedback, 150

E

- economic recession, effect on TAC, 24
- educating customers, CVT
 - (config-verify-troubleshoot) strategy, 21
- encouraging Web-based case resolution, 117
- engineers
 - CSEs, role in case resolution, 117
 - SMEs, role in case resolution, 22–23
- evaluating
 - audience competency, customized
 - segmentation, 84
 - competitor sites, 86, 103–105
 - documentation, 106
 - non-English, 107
 - searchable knowledge base, 107
 - non-competitor sites, 108–109
 - success of Marketing Team, 87
- Evans, Julie, 33

F

- failures of TAC, 28
- feature-creep, 132
- feedback
 - incorporating in customer feedback process, 163
 - processing, 150

- regarding incorrect information, 183
 - responding to, 162
- feedback links, 73
- filter navigation, 127
- foreign (non-English) audience, marketing
 - strategies, 80
- forms, customer feedback, 161
 - responding to, 183
- frequency of competitive analysis, 106
- future trends, 30
 - of TAC Web, 85, 193
 - of Web technologies, 57–58

G

- gathering
 - customer data, 82–83
 - feedback, 73–74
 - profile data, 133
- GCC (global call center), 22
- GEM (Greater Engineering Methodology) Cycle, 72
- Glanville, Erin Braddock, 147
- goals
 - of TAC Web, 92
 - metrics, 89
- Gordon, Steve, 17

H

- highly technical cases, resolving with
 - documentation, 185
- hiring practices
 - for project managers, 175
 - for technical writers, 190
 - within marketing department, 82
- human intervention
 - in complex cases, 165–166
 - reducing role in troubleshooting process, 58

I

IBSG (Internet Business Solutions Group), customer education, 21

identifying

- call center cases resolvable by Web site, 96
- motivating factors for customer TAC Web sessions, 94
- target audience for documentation, 184

impersonal nature of Web-based solutions, 181

impetus for TAC Web, 18

implementing metrics systems, 100

importance

- of customer education, 119
- of site content organization, 57
- of site organization, 59

in-house tool development, 56

- versus vendor development, 169, 172

installation cases, 34

inter-departmental communication, 79

internal marketing, 77

internal users, 174

international customers, marketing strategies, 80

intuitive tool design, 173

IP Subnet Calculator, 159

Iverson, Sean, 20, 67

J-L

Jewell, Randy, 51

Kera, Sameer, 43

launching TAC Web, 20

leadership of marketing departments, 81

Lechner, Helen, 137

logic synthesis, 51

M

maintenance

- of online documentation, 182–183
- of online tools, 172–173

malfunctioning tools, responding to, 172

managing

- content, 114
- TAC Web teams, 44

marketing

- audience competency, assessing, 71
- challenges within department, 81
- competitor sites, evaluating, 86, 103–105
- customer needs, assessing, 69
- customized segmentation, 84
- departments within, 74–76
- employing sophisticated methodologies, 83
- feedback-based tools, 73
- GEM cycle, 72
- hiring practices, 82
- internal marketing, 77
- leadership within departments, 81
- reaching core audience, 71–72
- role segmentation, 70
- success of, evaluating, 87, 173
- TAC Web launch campaign, 20
- TAC Web site, autonomy of, 68
- target audience, 70–71
- targeting tools for specific audiences, 174
- to non-English speaking audience, 80
- total available market, 70

measuring

- effectiveness of user community, 142
- popularity of online documentation, 188
- successes, 19
- of communication, 73
- of documentation, 192
- of marketing strategies, 80, 87, 173
- of SMEs, 151–152
- of TAC Web, 27, 90–91
- usability, 131

methodologies of user interface design, 125

metrics, 89

- applying to tools, 171
- gaining advantage over competitors, 27
- implementing, 100
- role in site architecture, 61–62

mining robust content, 150

misconfigured devices versus broken, 63–64

- monitoring
 - customer traffic, 58
 - bandwidth, 61
 - product support, 98–99
- motivating factors of TAC Web sessions,
 - identifying, 94

N

- navigation
 - alerting customers to reorganized content, 60
 - as metric for success, 118
 - evaluating competitors' sites, 104
 - filter navigation, 127
 - metadata, 150–151
 - of competitor sites, usability studies, 109
 - versus search-based customer traffic, 59
- NetPro, 137–141
- Networkers conference, 173
- Networking Communities site (TAC Web site), 12
- non-competitor site analysis, performing, 108–109
- non-English speaking audience, marketing
 - strategies, 80
- non-registered tool users, 157

O

- online documentation
 - categorizing, 187
 - maintenance, 183
 - search tools, 189–190
 - target audience, 186–187
 - versus traditional books, 191
- online tools
 - maintenance, 172–173
 - removing, 174
- opening cases, methods of, 36
- organization
 - importance of, 59
 - of competitor sites, evaluating, 104
 - tagging documentation, 150–151
 - Web site content, 57

- Output Interpreter, 26
- outsourced usability studies, 129

P

- page format, usability studies, 131–132
- performance of CSEs, evaluating, 77
- performing non-competitor site analysis, 108–109
- phases of GEM cycle, 72
- planning and design cases, 34
- Popple, Steve, 103
- popularity of online documentation, measuring, 188
- predicting future trends through case analysis, 120
- presentation of content to customers, 25
- prioritizing customer needs, 20
- product development, 29
 - role of CSE, 46
- product support, monitoring, 98–99
- Product, Technology, and Networking Solutions
 - page (TAC Web site), 7
- profile data, benefits of, 134
- profiling project, 133
- programming languages, adopting new
 - technologies, 55–56
- project management, cross-functionality of
 - TAC Web teams, 46
- project managers, criteria for, 175
- prospective marketing employees, 82
- purchasing applications, 56

R

- Ramey, Janet, 179
- reaching core audience, GEM cycle, 72
- recession, effect on TAC, 24
- registered tool users, 157
- removing broken online tools, 174
- reorganized content, alerting customers to
 - changes, 60
- researching Web technologies, 54–55
- resolving cases
 - role of CSEs, 117
 - TAC versus TAC Web, 41

- tools versus documents, 164
- Web-based resolution, 117
 - versus call-based, 119
- responding
 - to customer feedback, 162, 183
 - to malfunctioning tools, 172
- responsibilities of SMEs, 148
- Retzlaff, Barbara, 155
- reviewing online documentation, 182
- robust content, mining, 150
- role
 - of SMEs, 22–23
 - of marketing teams, 75–76

S

- search versus tools, 157
- searchability as metric for success, 118
- searching versus navigation, 59
- second TAC launch, 20
- seeking out Web technologies, 54–55
- segmentation of marketing roles, 70
- segregation of marketing teams, 74–76
- site architecture, 51–52
 - adopting new technologies, 55–56
 - advanced implementations, 53
 - customer traffic
 - monitoring, 58
 - navigation-based versus search-based, 59
 - demographic analysis, 62
 - developing applications, 56
 - metrics, 61–62
 - organization, 57–59
 - alerting changes to users, 60
- skill level of customer, assessing, 119
- SMEs, 147
 - background, 148
 - content, categorizing, 126
 - document authoring, 185
 - measuring success of, 151–152
 - role of, 22–23
 - in Web group, 152
 - separating duties with tech writers, 23
 - site architects, 51–52
 - advanced site architecture, 53
 - writing cases, 149

- Smith, Mike, 19, 89
- software support as impetus for e-support, 18
- solutions (Web-based), impersonal nature of, 181
- staffing, role of SMEs, 22–23
- starting
 - usability studies, 129–130
 - user communities, 145
- state-of-the-art Web technologies
 - adopting, 55–56
 - researching, 54–55
- Strachman, Blyth, 123
- streamlining case resolution process, 164
- successes, measuring, 19
 - of communication, 73
 - of documentation, 192
 - of marketing strategies, 80, 87, 173
 - of SMEs, 151–152
 - of TAC, 27
 - of TAC Web, 90–91
- usability, 131
- supervising TAC Web Teams, 44
- support pages, 125–126
- surveys, identifying motivating factors for Web
 - customer sessions, 94

T

- TAC (Technical Assistance Center). *See also* TAC Web site
 - and Cisco culture, 25
 - call center, 91
 - Case Open Tool, 37, 40
 - challenges of, 45
 - competitors, 26–27
 - content presentation, 25
 - cross-functionality of teams, 46
 - CSEs, 147–148
 - failures of, 28
 - future trends, 30
 - Output Interpreter, 26
 - product development, 29
 - Troubleshooting Assistant, 26
- TAC (Technical Assistance Center) Web site
 - architecture, 51–52
 - advanced implementations, 53
 - as research tool, 63

assessing future needs of customers, 48
 Case Open Tool, 14
 content management, 114
 goals, 92
 marketing department

- assessing customer needs, 69
- autonomy of, 68
- challenges of, 81
- prospective employees, 82
- segmentation process, 70
- target audience, 70–71

 measuring success of, 90–91
 Networking Communities site, 12
 Product, Technology, and Networking Solutions pages, 7
 Top Issues documentation, 6
 user motivation, identifying, 94
 user surveys, conducting, 92–99
 Web Technical Tip Documentation Search interface, 12
 Web Tools Index, 9
 tagging documentation, 150–151
 target audience

- communicating with, 71–72
- intelligence gathering, 82–83
- of online documentation, 186–187
- of TAC Web site, 70–71

 targeting tools for specific audiences, 174
 technical writers, 180

- responsibilities, 23
- hiring criteria, 190

 technologies

- old versus cutting-edge, 61
- Web-based, future of, 57–58

 Tobias, Tom, 113
 tools

- classifications, 160
- customer feedback
 - implementing, 161
 - responding to, 162
- developing, 21, 158–159
 - in-house versus vendor, 169, 172
 - usability testing, 163–164
 - verifying need for, 170
- feedback-based, 73
- internal users, 174
- intuitive descriptors, 160

intuitive design, 173
 IP Subnet Calculator, 159
 maintenance, 171–173
 malfunctioning, responding to, 172
 non-registered users, 157
 removing from Web site, 174
 resolving complex cases, 165–166
 targeting for specific audiences, 174
 Troubleshooting Assistant, 166–168
 versus search, 157

Top Issues documentation, 189

total available market, 70

troubleshooting

applications, future of, 100

case notes, ranking, 115

configuration-based cases, 116

malfunctioning tools, 172

misconfigured devices, 63–64

reducing need for human intervention, 58

Troubleshooting Assistant, 26, 166–168

U

usability studies, 109

customer profiling project, 133

“feature-creep”, 132

measuring success of, 131

need for, 127

on user interfaces, 128–129

starting, 129–130

user compensation, 130

user communities, 137–139

content mining, 150

effectiveness of, measuring, 142

information gathering, 140

posting, 141

starting, 145

user interfaces

designing, 124–125

usability studies, 128

measuring success, 131

of page formatting, 131–132

outsourcing, 129

starting, 129–130

user compensation, 130

utilities

- developing, 21, 158–159
- feedback-based, 73
- non-registered users, 157
- purchasing versus in-house development, 56
- TAC Case Open Tool, 37, 40

V

- vendor tool development versus in-house tool development, 172
- verifying need for tools, 170

W

- Walker Survey, 92–93
- Web sites, TAC
 - architecture, 51–52
 - advanced implementations, 53
 - as research tool, 63
 - assessing future needs of customers, 48
 - Case Open Tool, 14
 - content management, 114
 - goals, 92
 - marketing department
 - assessing customer needs, 69
 - autonomy of, 68
 - challenges of, 81
 - prospective employees, 82
 - segmentation process, 70
 - target audience, 70–71
 - measuring success of, 90–91
 - Networking Communities site, 12
 - Product, Technology, and Networking Solutions pages, 7
 - Top Issues documentation, 6
 - user motivation, identifying, 94
 - user surveys, conducting, 92–99
 - Web Technical Tip Documentation Search interface, 12
 - Web Tools Index, 9
- Web Technical Tip Documentation Search interface (TAC Web site), 12

Web technologies

- future of, 57–58
- seeking out, 54–55
- Web Tools Index (TAC Web site), 9
- Web-based case resolution, 117
 - encouraging, 117
 - impersonal nature of, 181
 - versus call-based, 119
- writing cases, 148–149