

# Ablenet Webinar: Feature Match What is it?

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# Presenter Disclosures Kirk Behnke, M.Ed., ATP



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# Why are you attending this webinar?

Feature Match: What is it? Session Agenda

- Overview of Feature Match
- Why we conduct feature matching
- How we conduct feature matching
- Resources on feature matching

# Feature Matching

The formal & informal process in which the attributes of Assistive Technology that are needed & desired are determined.

Fonner & Behnke, 2018

## Support Effective Decision-making

- Solicit wide-spread participation in the design of environmentally-friendly, systematic processes
- Ensure that all know about and use the processes
- Provide time for collaboration
- Include students and parents
- Expect participation
- Reward participation

## **Need for Guidelines**

Studies point to the need for:

- A systematic way of planning, developing, and delivering AT devices and services
- Consistent, clearly understood descriptions of quality AT services

## Assistive Technology in Federal Statute



- Individuals with Disabilities Education Act (IDEA)
- Section 504 of the Rehabilitation Act
- Americans with Disabilities Act (ADA)
- Assistive Technology Act (AT Act)
- Section 508 of the Rehabilitation Act

## Assistive Technology Device Definition (First included in IDEA 1990)

## ► AT DEVICE...

means any item, piece of equipment, or product system... that is used to increase, maintain, or improve the functional capabilities of a child with a disability.

The term does not include a medical device that is surgically implanted, or the replacement of such device.

## Assistive Technology Service Definition (First included in IDEA 1990)

## ► AT SERVICE...

means any service that **directly assists a person with a disability** in the selection, acquisition, or use of an assistive technology device.

## Legal requirements tell us WHAT we need to

but not HOW!

do,

REGULATIONS

Guiding **Principles** for Assistive Technolog



## Important big Ideas to keep in mind

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## Guiding Principles for Assistive Technology

- *Enhancing capabilities* and *lowering barriers* to achievement
- Increase *participation and progression* in meaningful activities of life
- Include a *broad range* of possible devices and services
- **Related to function**, rather than to specific disability categories or sources of equipment
- The **least complex solution** that will remove barriers to achievement should be a first consideration

## Guiding Principles for Assistive Technology

- **AT enhances instruction,** does not replace it
- AT is needed to participate in and benefit from *other initiatives and activities*
- Assessment and intervention form a *continuous, dynamic* process
- Systematic problem analysis and solving are essential
- Collabortive team process is required

# The MOST IMPORTANT Team Membership Issue

Team membership is **flexible** and team members are selected **based on the specific needs of the student with disabilities** 



## **Big Ideas about Teams**



- The student is always the center of the team
- Families are critical members of the team
- Team members bring different gifts *knowledge, skill, observations, ideas, suggestions*
- Multiple perspectives are vital
- Focus is on the common interest in individual achievement and aligning thoughts on how to best foster it

# Decision Making



How are assistive technology decisions made in YOUR customary environment?

# AT Decision-Making Technique Contraction











# Support for your Services with the QIAT Areas

- Consideration
- Assessment
- AT in the IEP
- Implementation

- Evaluation of Effectiveness
- Transition
- Administrative Support
- Professional Development



Quality Indicators for Assistive Technology Services



## Assessment of AT Needs – page 1

Quality Indicators for Assistive Technology Services

Quality			Variations		DD ON (ICINIC
Indicator	UNACCEPTABLE				
		-	-		PRACIICES
1. <u>Procedures</u> for all	1	2	3	4	5
aspects of AT	No procedures are	Some assessment	Procedures are defined	Procedures are clearly	Clearly defined
assessment are clearly	defined.	procedures are defined,	and used only by	defined and generally	bread was around by
defined and		but not generally used.	specialized personnel.	used in both special and	procedures are used by
consistently applied.				general education.	assessment process.
2. AT assessments are	1	2	3	4	5
conducted by a team	A designated	A designated person	A designated team with	A team whose	Flexible teams
with the collective	individual with no	or group of	knowledge of	members have direct	formed on the basis
knowledge and skills	prior knowledge of	individuals who have	AT conducts assessments	knowledge of the	ofknowledge of
needed to determine	the student's needs or	knowledge of	with limited input	student's needs.	of the individual
possible AT solutions	technology conducts	technology, but not of	from individuals who	environments, tasks,	student's needs.
that address the needs	assessments.	the student's needs.	have knowledge of	and knowledge of	environments, tasks,
and abilities of the	~~~~~	environments or	the student's needs	AT generally conducts	and expertise in AT
student, demands of the		tasks conducts	environments and tasks	assessments	consistently conduct
customary		assessments		account of the second s	assessments
environments.					
educational goals, and					
related activities.					
related activities.					
3. All AT assessments	1	2	3	4	5
include a functional	No component of the AT	No component of the AT	Functional components of	Functional components of	Functional components of
assessment in the	assessment is conducted	assessment is conducted	AT assessments are	AT assessments are	AT assessments are
student's customary	in any of the student's	in any of the customary	sometimes conducted in	generally conducted in	consistently conducted in
environments, such as	customary environments.	environments, however,	the student's customary	the student's customary	the student's customary
the classroom,	-	data about the customary	environments.	environments.	environments.
lunchroom, playground,		environments are sought.			
home, community		Ĭ			
setting, or work place.					

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## Assessment of AT Needs – page 2

Quality Indicators for Assistive Technology Services

4 AT assessments	1	2	3	4	5
including needed trials, are completed within <u>reasonable timelines</u> .	AT assessments are not completed within agency timelines.	AT assessments are frequently out of compliance with timelines.	AT assessments are completed within a reasonable timeline and may or may not include initial trials.	AT assessments are completed within a reasonable timeline and include at least initial trials.	AT assessments are conducted in a timely manner and include a plan for ongoing assessment and trials in customary environments.
. Recommendations	1	2	3	4	5
from AT assessments	Recommendations are not	Recommendations are	Recommendations are	Recommendations are	Recommendations are
are <u>based on data</u> about	data based.	based on incomplete data	sometimes based on data	generally based on data	consistently based on data
the student,		from limited sources.	about student	about student	about student
environments and tasks.			performance on typical tasks in customary environments.	performance on typical tasks in customary environments.	performance on typical tasks in customary environments.
6. The assessment	1	2	3	4	5
provides the IEP team	Recommendations are not	Documented	Documented	Documented	Documented
with clearly <u>documented</u>	documented.	recommendations include	recommendations may or	recommendations	recommendations
recommendations that		only devices.	may not include sufficient	generally include	consistently include
guide decisions about		Recommendations about	information about devices	sufficient information	sufficient information
acquisition, and use of		documented.	decision-making and	services to guide	services to guide
AT devices and services.		documented.	program development.	decision-making and	decision-making and
			r	program development.	program development.
7. AT needs are	1	2	3	4	5
reassessed any time	AT needs are not	AT needs are only	AT needs are reassessed	AT use is frequently	AT use is frequently
changes in the student,	reassessed.	reassessed when	on an annual basis or	monitored. AT needs are	monitored. AT needs are
the environments and/or		requested. Reassessment	upon request.	generally reassessed if	generally reassessed if
the tasks result in the		is done formally and no	Reassessment may	current tools and	current tools and
student's needs not		ongoing A1 assessment	include some ongoing	strategies are ineffective.	strategies are ineffective.
devices and/or services.		takespiace.	strategies	includes ongoing	includes ongoing
activity and of set fields.			suuregres.	assessment strategies	assessment strategies
				and includes formal	and includes formal
1				assessment, if indicated.	assessment, if indicated.

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AT Decision Making Frameworks



### SETT: Student Environment Task Tools HAAT: Human Activity AT

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## What Others Have Said...

- "We don't KNOW what to do!"
- "We prioritize.. most visible needs first"
- "Johnny?... he's too low"
- "Don't they already know how to do this?"
- "We just checked yes or no on the form"
- "Sally?...she just needs to try harder"
- "Not before the fifth grade"
- "We don't have enough money for that"
- "Jeff?.. He's going to high school! Get the kid a laptop!"

## **Decision-Making Sequence** (www.joyzabala.com) Develop shared understanding of the Student, Environments, and expected Tasks **BEFORE** Tools are

## LEARNER ATTRIBUTES:

#### PHYSICAL

sensory, mobility, manipulative

additional work

#### LEARNING

Curriculum Standard

entations, project

spelling, reading

eling levels of the same text.

ach and spaech to taxt, Web sites.

Video cameras, tape recorders.

ATTITUDES/EXPECTATIONS

& expectation of success, or

fear of failure & resentment of

sharing attitudes of possibility

lalized keyboarde

reading, numerical, conceptual, organization, attention

multip

Cant to a

digital me

electronic t

Video streat

ARRANGEMENT

4

thting, noise

classroom design,

separation vs. inclusion

С

#### COGNITIVE

reasoning, visual/verbal, big picture/details, problem-solving

#### A Spectrum of Abilities

istructional side.

ng, family, medica

Achieve

CO-LOSO

#### LANGUAGE/COMMUNICATION

English Language Learner, speaking & presenting

#### SOCIAL/EMOTIONAL

impulse control, aggression/passivity, depression/hyperactivity, working with others

#### EXPERIENCE

foundation for learning

#### 2018 Behnke & Fonner

What Helps the Learner

vertial promptia & gentures, peer notice fuilters

Physical, Technica

MATERIALS/EQUIPMENT

art à music materiale.

calculatore, ecience labs,

laptoza, handheida, PCs, NV

large-print texts,

molification of learning gamesiansian modeling appropriate skills, mobility i

# The SETT Framework <a href="http://joyzabala.com">http://joyzabala.com</a>

## Student, Environment, Tasks, & Tools

### **The Student**

 The person who is the central focus of the educational process and for whom everyone involved in any part of the educational program is an advocate

#### **The Environments**

• The customary environments in which the student is (or can be) expected to learn and grow

#### The Tasks

 The specific things that the student needs to be able to do or learn to do to reach expectations and make educational progress

## The SETT Framework

The Tools

<u>Everything</u> that is needed by the student and others for the student accomplish the tasks in the places where they need to be done so that educational progress is achieved



## Tools

 Whatever is needed by the student and others for the student to do the tasks in the environments in order to meet expectations



# Sample SETT - David

#### THE SETT FRAMEWORK - PART I Collaborative Consideration of Student Need for Assistive Technology Devices and Services

Student: <u>S</u> Date: <u>11/3/99</u> Perspective: <u>AT Consultant from CESA1 taking notes during team meeting (Spec Ed</u> <u>Teacher, Mother, Math teacher, Physical Therapist, Occupational Therapist, Pupil Services Administrator, Student Counselor)</u>

#### EXAMINING CURRENT CONDITIONS TO CONSIDER EDUCATIONAL NEED

STUDENT	ENVIRONMENT	TASKS	ACCOMMODATION	TOOLS (now)	TOOLS(to try)
<ul> <li>13 years old</li> <li>Strengths: <ul> <li>Reading</li> <li>Quality Work</li> <li>Verbal Expression</li> </ul> </li> <li>Ideas <ul> <li>Concepts</li> <li>Language</li> <li>Speech</li> <li>Recite Poems</li> <li>Paper</li> <li>Gaining maturity</li> </ul> </li> <li>Weaknesses: <ul> <li>Self-Esteem</li> <li>Mild seizure activity</li> <li>Distraction</li> <li>Low Frustration Tolerance</li> <li>Transferability</li> <li>Hand-writing w/pencil (cramped)</li> <li>not equal hand strength to type (left hand uses; not efficient alone; right hand-fisted for stabilizing)</li> </ul> </li> </ul>	<ul> <li>Writing (concern of 3)</li> <li>Final typed manuscript form</li> <li>Short Answer</li> <li>Note taking</li> <li>Projects</li> <li>Poster</li> <li>Spelling Test</li> <li>Time Allowance</li> <li>Math</li> <li>Coordinates</li> <li>Calculations (concern of 1)</li> <li>Time</li> <li>Web</li> <li>Next Year</li> <li>Graphing</li> <li>5 academic teacher</li> </ul>	Breakdowns: Short Answers Taking Notes Cutting (use of scissors) Graphing (using ruler) (concern of 1) Test taking Organization of notes Math problems	<ul> <li>Dictates- thinking &amp; saying ys. physical energy</li> <li>Notetaking: <ul> <li>Carbon paper from friends (teacher sometimes has to remind him to ask if student doesn't automatically helps)</li> <li>Tape Recorder (tried but with trouble handling &amp; dropping)</li> </ul> </li> <li>Cutting <ul> <li>Mom cuts at home or he tries and he is unsatisfied with the quality of his work</li> </ul> </li> <li>Test taking <ul> <li>Time allowances</li> </ul> </li> <li>Extra Supplies in each class: <ul> <li>Textbooks both home &amp; school</li> <li>Computer access (at teacher's desk in each class)</li> </ul> </li> <li>Powerchair (materials location- behind - they've tried side options)</li> </ul>	Voice Recognition - tired both discrete & continuous with limited success according to mom (lose train of thought, page, tranggalition, saw no difference between the two) ?how are they handling corrections? Computer Use - long time use; limited typing ability; uses stickey key at home but not at school; one handed typing (no interest); Mousing - uses mouse at home and school for editing Graphing - uses modified ruler but teacher doesn't find this satisfactory Math - uses larger calculator	<ul> <li>Voice Recognition</li> <li>Naturally Speaking</li> <li>If not successful try discrete</li> <li>Keyboarding</li> <li>Portable Tools</li> <li>Stickey Key</li> <li>OnScreen Kubd</li> <li>Probably not headmouse</li> <li>Mouse</li> <li>Trackball</li> <li>Speed</li> <li>Cutting</li> <li>Use small paper cutter</li> <li>Math</li> <li>Use larger paper</li> <li>Non-slip surface</li> <li>Graphic calculator</li> <li>Use handle ruler</li> <li>Computer access in each class</li> </ul>
		1		1	

The HAAT Model (Cook & Hussey, 1995)

The Human Performance Model (Bailey, 1996) outlines that people performing in systems have in common that they are each somebody (a person), doing something (an activity), at someplace (within a context). Context Human Activity Assistive Technology

The HAAT Model is an extension of HPM where it has four components - the human, the activity, the assistive technology, and the context in which these three integrated factors exist.

## **The HAAT Model**

(Cook & Hussey, 1995)

- 4 Components of Context
  - Physical, social, cultural, institutional
- Human Component
  - Physical, cognitive, emotional, novice or expert
- Activity Component
  - Self care, productivity, leisure
- Assistive Technology
  - Human tech interface(hti) activity output, processor, environmental interface

## **Feature Matching**

- List the Features needed by the consumer
- Review technology options for:
  - Input (Environmental Interface)
  - Processing
  - Output (HTI Activity Output)
  - Other properties



# Human to Lechnology -Feature Match

## Person

#### Human/Student

- Abilities
- □ Needs
- Context/Environment
  - Expectations
  - □ Supports
- □ Activities/Tasks
  - Functions
  - Priorities

## **Assistive Technology**

#### Input

G What are the access options?

#### Processing

- □ Readability?
- □ What layout?
- □ Speed/rate enhancements?

#### Output

- □ Text, images or tactual info?
- Auditory options?

#### □ Other properties

- □ OS? Cost?
- □ Ease of use?
- □ Support?
- □ Upgrade policy?

## Feature Match Input

Input feature

#### Assistive Technology Feature Charts

Input: How the system in activated. Determined by the motor, sensory, and cognitive abilities and needs of the user.

Direct Selection Input Method	The Human Interface	The Technology Feature
Keyboard	Hand(s)/Digit(s)	Standard Keyboard
Assisted Keyboard	Foot/Toe	Adjustable Keyboard
	Headstick/Chinstick	Ergonomic Keyboard
	Mouthstick	Rearranged Keys
Alternate Keyboard	Hand(s)/Digit(s)/Fist	Enlarged Keyboard
	Foot/Toe	Miniature Keyboard
	Headstick/Chinstick	Condensed Keyboard
	Mouthstick	Chordic Keyboard
	Tongue	
OnScreen Keyboard	Mouse or mouse emulator	Keyboard on Tablet
	Activated via Hand/Foot/Head	Keyboard on Monitor Display
Pen Controlled	Handwriting	Handwriting Recognition
Gesture	Finger	Gesture
	Hand (body) held pointer	SWIPE on Keyboard
Mouse Emulation	Hand/Digit/Fist/Elbow	Mouse/Trackball
	Foot	Tracpad/Tablet
	Head/Chin	Mouse Stick
		Head Movement Sensitive Unit
Light Pointing	Light source mounted on head or	Light Panel
	other part of the body	Photosensitive Cell
Voice Recognition	Speech	Discrete Speech
	Sound	Continuous Speech
	Noise (ie. Clapping)	Sound Activated Cell
Eye Gaze	Eye movements	Etran
	Eye pointing	Eye Gaze System
Brain Computer Interface	Brain wave activity	Mind band/Helmet
		Sensitive connectors
Switch	Single Switch Activation via	Connected to: Battery Device
	pressure, pneumatic, motion,	Electronic Appliance
	physioelectric, photosensitivity,	Tablet/Computer Interface Box
	sound, proximity	Communication System
		Morse Code

Indirect Selection				
Switch Types	Switch	Scanning	Types of	Ways to Operate the Scan
	Activation	Displays	Scanning	
Single	Pressure	Light Diodes	Linear	1 Switch Step
Dual	Pneumatic (air)	Light Panel	Circular	1 Switch Sequence
Multiple	Motion	OnScreen Display	Row/Column	2 Switch Step
Directional	Physioelectric	Dynamic	Column/Row	Automatic
Proportional	Photosensitive		Group/Block	Continuous
	Sound		Directed	Inverse
	Proximity		Auditory	

## Feature Match Processing

Processing Features

Processing: T	he organization of the system	n. Includes	s the layout, soft	tware type, language	
representation	and rate enhancement tech	niques. De	termined by the	cognitive, receptive and	
expressive abil	ities and needs of the user				
Subreserve and					
Keyboard	Full Keyboard Displays	Standard		OWERTY ABC AFIOU	
Lavouts	r anneyeeare enspraye	Ergonomic		CHUBON, DVORAK.	
			-	Center Space	
	Half Keyboard Displays			Half Qwerty	
				Chordic	
Cognitive	Grammar	Grammar	Checker, Active G	ammar Check	
Supports		Word Con	pletion		
		Word Pred	diction, Language-b	based Word Prediction	
		Language	Translation		
	Spelling	Spell Che	cker		
		Spelling-b	ase Word Predictio	n	
		Active Spe	alling Cue		
	Maau	Auditory Di	cuonary		
	werlu	Picture m	enu anu		
		The strate	ny of how the	Word form how the target item	
Supports		target item	is retrieved	is stored	
ouppoile					
	Single Key Activated	Tape Reco	rded	Single Word	
	(one selection)	Digital Rec	ording	Partial Message/Phrase	
	Multiple Keys Activated (multiple)	selections)	een -	whole bentenberwessage	
	Encoded Strategies (single	Orthograph	y (alphabet layout)	Spelling	
	display set = multiple messages)	Abbreviatio	n Expansion	Single Word	
		Logical Let	ter Codes	Partial Message/Phrase	
		0.1.0.5		Whole Sentence/Message	
		Number Co	ig dina	Single Word Partial Mass and Phrase	
		Number Co	ung	Whole Sentence/Message	
		Semantic C	Compaction	Single Word	
		Language B	Branching	Partial Message/Phrase	
		Mark in hims		Whole Sentence/Message	
		KeyLinking		Single Word Partial Mass and Phrase	
				Whole Sentence/Message	
		Morse Code		Single Word	
				Partial Message/Phrase	
	Development of the factor of the later			Whole Sentence/Message	
	display sets = multiple	Levels & Lo	cations	Single Word Partial Mass and Phrase	
	messages)			Whole Sentence/Message	
	<b>U</b>	Dynamic Di	isplays	Single Word	
		-		Partial Message/Phrase	
				Whole Sentence/Message	
		Auditory Sc	ans	Single Word Partial Mass and Phrase	
				Whole Sentence/Message	
Rate	Strategy Type		Processing stra	teav used with	
Enhancement	Word Prediction		Orthography		
Strategies	Symbol/Icon Prediction		Semantic Compa	ction, Key Linking, Dynamic	
			Displays		
	Pop Up/Sort Dialog Windows		Dynamic Displays		
	Frequency Averaging		Encoded and Bra	anching strategies	

Assistive Technology Feature Charts

## Feature Match Output

Output Features

#### Assistive Technology Feature Charts

Output: The result of activating the system. Determined by the sensory, cognitive, receptive and expressive abilities, needs and expectations of the user.

Type of Output	Resulting Output Needed/Expected	The Technology Feature		
Auditory	Key Activation Feedback	Key Beep Key Echo		
	Synthesized Speech	Electronic Speech Sy	nthesis	
	(Text-to-Speech)	Human Recorded/Ret	ndered Synthesis	
	Recorded Speech	Digitized Speech		
	Recorded Sound	Digitized Sound		
Visual	Contrast:	Display Type:		
	Color	Tablet		
	Monochrome	Desktop Monitor		
	Reverse Polarity	Portable Display		
	Backlighting/Side-lighting	Built-in Display		
	Size:	CCTV/camera		
	Enlarged Display	Large Screen Monitor	·	
	Enlarged Picture	Screen Enlarger		
	Enlarged Font	Text Enlargement		
	Hard Copy:	Printer Type:	Print Methods:	
	Regular Print	Desktop	InkJet	
	Enlarged Print	Portable	Laser	
	Color Print	Built-In	Thermal	
Tactual	Tactual Alert (shaking)	Vibration	1	
	Brailled Text	Text to Braille Conver Braille Embosser	rsion	
	Refreshable Braille	Text to Braille Conver Single Character Disp Single Line (40/80) Di	sion xlay splay	
	Tactual Map	Thermoform		
	Tactual Graphic	Raised Graphic Pape	r	
Interface Capabilities	Connect to:	Type of Connection:	:	
	Flashesis Mail	Theres		
	Electronic Mail	LICD Trans		
	Server	USB Type		
	Lists	Mini		
	video Chat	Other		
	Electronic Imaging:	Wireless		
	Scanner	USB Type		
	Camera/Video	Other		
	Computer Emulator	ASCII		

## Feature Match Other - Compan



#### Assistive Technology Feature Charts

General Features: Physical and other properties that impact system selection.

Portability	
	Weight
	Size, Dimensions
	Handle/Carry Strap/Belt
	Mounting Options
	Carry Case
	Battery Life

Company Policy	
	Initial Setup and Training
	Loaner availability
	Service/Repair Record
	Rent to Purchase Program
	Financing Assistance
	Local Representative
	Site Licensing

Other	
	Cost
	Ease of Use
	Transparency
	Memory/Storage Capacity
	Customizability
	Upgradeable/Expandable
	Back-up Capability
	Aesthetics
	Durability



#### THE SETT FRAMEWORK - PART II - A

Describing an Assistive Technology Tool System to Address Identified Student Needs Brainstorming Possible Tools that Match the Description

STUDENT: \_\_\_\_\_ AREA OF ESABLISHED NEED (See SETT:Part I): \_\_\_\_\_

Enter one description or important function in each column					
Enter one possible tool in each row					

Where does this Feature informatio n come from

## Feature Match Example

Call Scotland

University of Edinburgh Assistive Technology Project

http://www.callscotland.o rg.uk/downloads/postersand-leaflets.

## Android Apps for Learners with Dyslexia/ Reading and Writing Difficulties



## Feature Match Company Example

#### http://www.aacfunding.com

To assist with funding process, templates and submission to insurance.

#### http://www.prentrom.com

Product features, online modules, just in time workshops, and videos.



#### PRC DEVICE/ACCESSORY SELECTION SHEET - ACCENT®

\*\*Please see separate selection sheet for PRC PRIO devices.

Client First Name:

Last Name:

#### 1. CHOOSE YOUR DEVICE:

ACCENT Device: please choose one below

Accent Bo0 Trim Color: <u>Black</u> <u>Blue</u> <u>Red</u> <u>Pink</u> <u>Purple</u> <u>Green</u> <u>Yellow</u>

Accent 1000 Frame Color: <u>Black</u> <u>Blue</u> <u>Red</u> <u>Pink</u> <u>Purple</u>

Accent 1400 Frame Color: <u>Black</u> <u>Blue</u> <u>Red</u> <u>Pink</u> <u>Purple</u>

Accent 1400 Frame Color: <u>Black</u> <u>Blue</u> <u>Red</u> <u>Yellow</u>

"Please note carrying case/ shap included with all funded purchases

2. CHOOSE YOUR CON	2. CHOOSE YOUR CONFIGURATION:					
Dedicated or Integrated?:	Dedicated (Wi-Fi / Windows capebility is not activated)     Integrated (Wi-Fi / Windows 10 capability is activated) - may not be available for many funding acurces					
Vocabulary Configuration:	Unity <sup>al</sup> Family (includes Unity, LAMP Words for Life, CoreScenner, WordCore, 48/15 page sets)     UNIDAD <sup>al</sup> (includes Spanish/English versions of Unity 36 & 64 and LAMP Words for Life - Spanish/English.)     Essence <sup>al</sup> (primarily for adult clients with intact iteracy akilo)     WordPower <sup>166</sup> (includes configuration with PRC symbols; if PCS symbols are desired; they must be purchased separately)					

#### 3. CUSTOMIZE:

Extra Voice: (fee when selected at time of purchase - ch	pose one)
Acapela Scott (Genuine Male Teenager Voice)	Acapeta Emilio (Spanish/English Bilingual Male Voice, included in UNIDAD <sup>6</sup> configuration)
Acapela Josh (Genuine Male Child Voice)	Acapela Valeria (Spanish/English Bilingual Female Voice, included in UNIDAD® configuration)
Acapela Ella (Genuine Female Child Voice)	DECtalk Suite (English Adult Voices)
Acapela Suite (English Adult Voices)	Acapela Spanish Suite (Spanish Adult Voices)
Add-Ons: (may not be available for all funding sources - )	okasa check with PRC funding)
Additional Symbol Sets: Clarity Symbols +\$100	Symbol Six +\$125 PCS +\$375

Keygu	ard Keyour	ects are mad	te from this	k, clear poi	ycarbonale	material a	nd have rea	cfangular openings.
04	08	O 15	0 28	0 36	O 45	0 60	0.84	O 144
Touchg	puide Touc	hguides are	made from	a thin, clea	ar polycarb	onate mate	dal and has	we a round opening.
04	OB	O 15	0 28	O 36	O 45	O 60	0.84	O 144
Xtreme	Case (no	Nable for Ac	cent 800 at	nd 1000 on	ly: Circle se	slection: BA	ack, Mun, i	Red, Purple )
NuPoint module (headpointing)							BJOY who	eolchair joystick adaptor O Wired O Wireless
NuEye module (nya gaza) - available for 1000 & 1400					00		Switch(es)	and switch mounts required (please attach specific switch selection shee
Wheelchain/Table/Floor Mount (please attach specific mounting worksheel)					noific		ORM Moun	nting Plate (included on 1400; required aconsory for 800/1000 that ind)
Additional Accent Battery Charger						<b>—</b>	Stran Hand	die Jaardahie der Ber 2000 werd 2000 werdele onder

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## Moving Forward: The Tools

- Device(s) what and why?
- Services what, why and for whom?,
- Training Content and for whom?
- Strategies and Accommodations?
- Other needs or considerations?

Make recommendations and justify them with data.





#### THE SETT FRAMEWORK - PART II - A

Describing an Assistive Technology Tool System to Address Identified Student Needs Brainstorming Possible Tools that Match the Description

STUDENT: \_\_\_\_\_ AREA OF ESABLISHED NEED (See SETT:Part I): \_\_\_\_\_

Enter one description or important function in each column					
Enter one possible tool in each row					

## **Planning for Trials**

Where to get Trials

- Download trials for Apps & Extensions
- Utilize Rental Programs- work through insurance companies to pay for trial evaluations



- Borrow from Loaner Programs
- Create Mock-ups from what you have
  - Tablet Systems with Interfaces
  - AAC Products with Multiple Features

## **Planning for Trials**

Data Collection During Trials

- SETT Forms (<u>www.joyzabala.com</u>)
- Evaluation of Effectiveness (<u>www.qiat.org</u>)
- Language Sampling & Data Logging
   (aacinstitute.org/language-sample-collection-in-aac)



# SETT Forms - Part II-B (www.joyzabala.com)

#### THE SETT FRAMEWORK - PART II - B

Establishing Availability and Service Needs for Promising Tools

SHORT LIST OF TOOLS	TOOL AVAILABILITY		L ILITY		SERVICES REQUIRE FOR EFFECTIVE US	ID SE
JUSTIFY CHOICES WITH SETT DATA AND FEATURE MATCH	А	s	ТВА	STUDENT	STAFF	FAMILY

KEY: A= Available to ALL students served by this system

S= Available through Special Ed. or other special program for which the student qualifies

TBA = Tools which need to be acquired if consideration or assessment data establishes student need

# Feature Match in your setting



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# **Stages of Implementation\***

- Exploration
- Installation
- Initial Implementation
- Full Implementation
- Sustainability

\*Wallace, F., Blasé, K., Fixsen, D., Naoom, S., (2008). Implementing the Findings of Research: Bridging the Gap Between Knowledge and Practice

# **QIAT** Online Supports



Quality Indicators for Assistive Technology Services

# http://www.qiat.org

### **QIAT Website**

- guiding documents handouts and feedback

## **QIAT List**

- collegial conversations new information & updates



assessment.



## Work Together to for Success!

- Use a team approach
- Needs first, then tools
- Focus on barrier removal
- Assistive technology devices AND services
- Educational, ubiquitous, embedded and assistive technology tools
- Determine roles and responsibilities
- Evaluate Effectiveness

## Resources

- Assistive Technologies-E-Book: Principles and Practice
- AM Cook, JM Polgar 2014 <u>https://books.google.com</u>
- Call Scotland <u>http://www.callscotland.org.uk</u>
- CTG Resource Directory <u>https://www.closingthegap.com/resource-directory/</u>
- Georgia project for AT <u>http://www.gpat.org</u>
- Quality Indicators in Assistive Technology (QIAT) <u>http://www.qiat.org</u>
- SETT Framework <u>http://joyzabala.com</u>
- Texas AT Network <u>http://www.texasat.net</u>
- The AAC Institute <u>http://www.aacinstitute.org</u>
- The AT Center at OCALI <u>https://ataem.org/</u>
- Wisconsin AT Initiative <u>http://wati.org</u>

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**Input:** How the system in activated. Determined by the motor, sensory, and cognitive abilities and needs of the user.

Direct Selection Input Method	The Human Interface	The Technology Feature
Keyboard Assisted Keyboard	Hand(s)/Digit(s) Foot/Toe Headstick/Chinstick	Standard Keyboard Adjustable Keyboard
	Mouthstick	Rearranged Keys
Alternate Keyboard	Hand(s)/Digit(s)/Fist Foot/Toe Headstick/Chinstick Mouthstick Tongue	Enlarged Keyboard Miniature Keyboard Condensed Keyboard Chordic Keyboard
OnScreen Keyboard	Mouse or mouse emulator Activated via Hand/Foot/Head	Keyboard on Tablet Keyboard on Monitor Display
Pen Controlled Gesture	Handwriting Finger Hand (body) held pointer	Handwriting Recognition Gesture SWIPE on Keyboard
Mouse Emulation	Hand/Digit/Fist/Elbow Foot Head/Chin	Mouse/Trackball Tracpad/Tablet Mouse Stick Head Movement Sensitive Unit
Light Pointing	Light source mounted on head or other part of the body	Light Panel Photosensitive Cell
Voice Recognition	Speech Sound Noise (ie. Clapping)	Discrete Speech Continuous Speech Sound Activated Cell
Eye Gaze	Eye movements Eye pointing	Etran Eye Gaze System
Brain Computer Interface	Brain wave activity	Mind band/Helmet Sensitive connectors
Switch	Single Switch Activation via pressure, pneumatic, motion, physioelectric, photosensitivity, sound, proximity	Connected to: Battery Device Electronic Appliance Tablet/Computer Interface Box Communication System Morse Code

Indirect Selection				
Switch Types	Switch Activation	Scanning Displays	Types of Scanning	Ways to Operate the Scan
Single	Pressure	Light Diodes	Linear	1 Switch Step
Dual	Pneumatic (air)	Light Panel	Circular	1 Switch Sequence
Multiple	Motion	OnScreen Display	Row/Column	2 Switch Step
Directional	Physioelectric	Dynamic	Column/Row	Automatic
Proportional	Photosensitive		Group/Block	Continuous
	Sound		Directed	Inverse
	Proximity		Auditory	

**Processing:** The organization of the system. Includes the layout, software type, language representation, and rate enhancement techniques. Determined by the cognitive, receptive and expressive abilities and needs of the user.

Layouts         Ergonomic         CHUBOR, DVORAK, Center Space           Half Keyboard Displays         Half Qwerty Chordic         Completion Word Prediction         Half Qwerty Chordic           Cognitive Supports         Grammar         Grammar Checker, Active Grammar Check Word Prediction, Language-based Word Prediction Language Translation           Spelling         Spelling base Word Prediction Active Spelling-base Word Prediction Active Spelling Cue         Word form how the target item is stored           Language         Single Key Activated (one selection)         The strategy of how the target item is retrieved         Word form how the target item is stored           Single Key Activated (one selection)         Tape Recorded Digital Recording Tark to Speech         Single Word Partial Message/Phrase Whole Sentence/Message           Mutriple Keys Activated (one selection)         Orthography (alphabet layout) Laguage Branching         Spelling Single Word Partial Message/Phrase Whole Sentence/Message           Mutriple Keys Activated (alsplay set = multiple messages)         Orthography (alphabet layout) Mone Coding         Spelling Single Word Partial Message/Phrase Whole Sentence/Message           Branching Strategies (multiple messages)         Encoded         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial M	Keyboard	Full Keyboard Displays	Standard		QWERTY, ABC, AEIOU
Image: Construction         Control         Control           Cognitive Supports         Grammar         Grammar Checker, Active Grammar Check           Supports         Grammar         Grammar Checker, Active Grammar Check           Spelling         Spelling         Spelling-base Word Prediction Language Translation           Spelling         Spelling-base Word Prediction Active Spelling-base Word Prediction Active Spelling-base Word Prediction Active Spelling-base Word Prediction           Language         Menu         Auditory menu Picture menu           Language         The strategy of how the traget item is retrieved         Word form how the target item is stored           Supports         Single Key Activated (one selection)         Tape Recorded Digital Recording Text to Speech         Whole Sentence/Message           Muttiple Keys Activated (insplay set = multiple messages)         Orthography (alphabet layout) Whole Sentence/Message         Spelling Single Word           Encoded Strategies (single display set = multiple messages)         Orthography (alphabet layout) Single Word         Spelling Partial Message/Phrase Whole Sentence/Message           Franching Strategies (multiple display sets = multiple messages)         Encoded Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message           Partial Message/Phrase Whole Sentence/Message           Morse Code	Layouts		Ergonomic	;	CHUBON, DVORAK,
Half Keyboard Displays         Half Werty Chordic           Cognitive Supports         Grammar         Grammar Checker, Active Grammar Check Word Completion, Language-based Word Prediction Language Translation           Spelling         Spell Checker Spelling-base Word Prediction Active Spelling Cue Picture Dictionary         Word form how the target item is stored           Language Supports         Menu         Auditory menu Picture Dictionary         Word form how the target item is stored           Single Key Activated (one selection)         Tape Recorded Digital Recording Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Multiple Keys Activated (multiple selections)         Orthography (alphabet layout)         Spelling Single Word           Multiple Keys Activated (multiple selections)         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Multiple Keys Activated (multiple display set = multiple messages)         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Branching Strategies (multiple messages)         Levels & Locations         Single Word Partial Message/Phrase Whole Sentence/Message           More Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           More Code         Single Word Partial Message/Phras	-		U		Center Space
Cognitive Supports         Grammar         Checker, Active Grammar Check Word Completion Word Prediction, Language-based Word Prediction Language Translation           Spelling         Spelling         Spelling         Spelling           Spelling         Spelling         Spelling         Spelling           Menu         Auditory menu Picture menu         Word form how the target item is stored         Word form how the target item is stored           Supports         Single Key Activated (one selection)         Tape Recorded Digital Recording Text to Speech         Word form how the target item is stored           Multiple Keys Activated (one selection)         Ontography (alphabet layou)         Spelling Digital Recording Text to Speech         Spelling Multiple Keys Activated (multiple selections)           Encoded Strategies (single display set = multiple messages         Ontography (alphabet layou)         Spelling Single Word Partial Message/Phrase Whole Sentence/Message           Encoded Strategies (single display set = multiple messages)         Ontography (alphabet layou)         Spelling Single Word Partial Message/Phrase Whole Sentence/Message           Branching Strategies (multiple messages)         Ecolog         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sen		Half Keyboard Displays			Half Qwerty
Cognitive Supports         Grammar         Grammar         Grammar Checker, Active Grammar Check Word Completion Language Translation           Spelling         Spelling         Spell Checker Spelling-base Word Prediction Active Spelling Cue Picture Dictionary           Menu         Auditory menu Picture Dictionary         Word form how the target item is stored           Single Key Activated (one selection)         The strategy of how the target item is retrieved         Word form how the target item is stored           Multiple Keys Activated (one selection)         Tape Recorded Digital Recording Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Multiple Keys Activated (multiple selections)         Spelling Orthography (alphabet layout)         Spelling Dirthography (alphabet layout)         Spelling Single Word           Branching Strategies (multiple display set = multiple messages)         Color Coding Number Coding         Single Word Partial Message/Phrase Whole Sentence/Message           Branching Strategies (multiple messages)         Levels & Locations         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Mord Prediction <t< th=""><th></th><th>, , , , , , , , , , , , , , , , , , , ,</th><th></th><th></th><th>Chordic</th></t<>		, , , , , , , , , , , , , , , , , , , ,			Chordic
Supports         Word Completion Word Prediction, Language-based Word Prediction Language Translation           Spelling         Spelling-base Word Prediction Active Spelling Cue           Ianguage Supports         Menu         Auditory menu Pricture Dictionary           Language Supports         Single Key Activated (one selection)         The strategy of how the target item is retrieved         Word form how the target item is stored           Multiple Keys Activated (one selection)         Tape Recorded Digital Recording Text to Speech         Single Word Partial Message/Phrase Whole Sentence/Message           Multiple Keys Activated (one Selection)         Othography (alphabet layout) Abbreviation Expansion Logical Letter Codes         Single Word Partial Message/Phrase Whole Sentence/Message           Encoded Strategies (single display set = multiple messages)         Othography (alphabet layout) Abbreviation Expansion Logical Letter Codes         Single Word Partial Message/Phrase Whole Sentence/Message           Rate Encoded Strategies (multiple display sets = multiple messages)         Execution Language Branching         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Morse Code         Single Word Partial Message/Phrase Whole S	Cognitive	Grammar	Grammar	Checker, Active Gra	ammar Check
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Language Supports         Single Key Activated (one selection)         Tape Recorded Digital Recording Text to Speech         Word form how the target item is stored           Multiple Keys Activated (one selection)         Tape Recorded Digital Recording Text to Speech         Single Word Whole Sentence/Message           Multiple Keys Activated (multiple selections)         Orthography (alphabet layout)         Spelling           Encoded Strategies (single display set = multiple messages)         Orthography (alphabet layout)         Spelling           Octo Coding Number Coding         Single Word Partial Message/Phrase         Single Word           Option Coding         Single Word Partial Message/Phrase         Single Word           Vhole Sentence/Message         Whole Sentence/Message         Whole Sentence/Message           Whole Sentence/Message         Single Word         Partial Message/Phrase           Whole Sentence/Message         Whole Sentence/Message         Whole Sentence/Message           Branching Strategies (multiple display sets = multiple messages)         Levels & Locations         Single Word Partial Message/Phrase           Whole Sentence/Message         Whole Sentence/Message         Whole Sentence/Message         Whole Sentence/Message           Branching Strategies (multiple display sets = multiple messages)         Levels & Locations         Single Word Partial Message/Phrase           Whole Sentence/Message			Picture me	enu	
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Single Key Activated (one selection)         Tape Recorded Digital Recording Text to Speech         Single Word Partial Message/Phrase Whole Sentence/Message           Multiple Keys Activated (multiple selections)         Orthography (alphabet layout) (alphabet layout)         Spelling           Encoded Strategies (single display set = multiple messages)         Orthography (alphabet layout) Abbreviation Expansion Dicical Letter Codes         Single Word           Very Color Coding         Single Word         Single Word           Partial Message/Phrase Whole Sentence/Message         Semantic Compaction Language Branching         Single Word           Semantic Compaction Language Branching         Single Word         Partial Message/Phrase Whole Sentence/Message           KeyLinking         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Branching Strategies (multiple display sets = multiple messages)         Levels & Locations         Single Word Partial Message/Phrase Whole Sentence/Message           Dynamic Displays         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word Partial Message/Phrase Whole Sentence/Message           Rate Enhancement Strategies         Strategy Type         Processing strategy used with           Word Prediction         Semantic Compaction, Key Linking, Dynamic Displays           Pop Up/Sort Dialog Windows         Dynamic Displays	Supports		target item	is retrieved	is stored
Single Key Activated (one selection)     Tape Recorded Digital Recording Text to Speech     Single Word Partial Message/Phrase Whole Sentence/Message       Multiple Keys Activated (multiple selections)     Orthography (alphabet layout)     Spelling       Encoded Strategies (single display set = multiple messages)     Orthography (alphabet layout)     Spelling       Abbreviation Expansion Logical Letter Codes     Single Word     Partial Message/Phrase       Whole Sentence/Message     Color Coding Number Coding     Single Word       Number Coding     Single Word     Partial Message/Phrase       Whole Sentence/Message     Semantic Compaction Language Branching     Single Word       Partial Message/Phrase Whole Sentence/Message     Single Word     Partial Message/Phrase Whole Sentence/Message       Branching Strategies (multiple display sets = multiple messages)     Levels & Locations     Single Word Partial Message/Phrase Whole Sentence/Message       Branching Strategies (multiple display sets = multiple messages)     Levels & Locations     Single Word Partial Message/Phrase Whole Sentence/Message       Dynamic Displays     Single Word Partial Message/Phrase Whole Sentence/Message     Single Word Partial Message/Phrase Whole Sentence/Message       Rate Enhancement Strategies     Strategy Type     Processing strategy used with       Symbol/Icon Prediction     Semantic Compaction, Key Linking, Dynamic Displays       Pop Up/Sort Dialog Windows     Dynamic Displays		Cingle Key Activated		ada al	
Branching Strategies (multiple display set = multiple display set = multiple     Display set = multiple message     Display set = multiple display set = multiple     Display set = multiple message     Display set = multiple display set = multiple     Levels & Locations     Single Word Partial Message/Phrase Whole Sentence/Message       Rate Enhancement Strategies     Strategy Type     Processing strategy used with     Processing strategy used with       Word Prediction     Symbol/Icon Prediction     Semantic Compaction, Key Linking, Dynamic Displays     Semantic Displays       Pop Up/Sort Dialog Windows     Dynamic Displays     Semantic Displays     Semantic Displays		(one selection)	Digital Recor	aea	Single Word Partial Message/Phrase
Multiple Keys Activated (multiple selections)       Infine Gunerositions get Infine Gunerosition Specific Encoded Strategies (single display set = multiple messages)       Orthography (alphabet layout) Abbreviation Expansion Logical Letter Codes       Spelling         Abbreviation Expansion Logical Letter Codes       Single Word Partial Message/Phrase Whole Sentence/Message       Single Word Partial Message/Phrase Whole Sentence/Message         Branching Strategies (multiple display sets = multiple messages)       Single Word Number Coding Number Coding Number Coding Number Coding Number Coding       Single Word Partial Message/Phrase Whole Sentence/Message         Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word Partial Message/Phrase Whole Sentence/Message         Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word Partial Message/Phrase Whole Sentence/Message         Dynamic Displays       Single Word Partial Message/Phrase Whole Sentence/Message       Single Word Partial Message/Phrase Whole Sentence/Message         Quartic Displays       Single Word Partial Message/Phrase Whole Sentence/Message       Single Word Partial Message/Phrase Whole Sentence/Message         Rate Enhancement Strategies       Strategy Type       Processing strategy used with         Word Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays			Text to Spe	ech	Whole Sentence/Message
Encoded Strategies (single display set = multiple messages)         Orthography (alphabet layout)         Spelling           Abbreviation Expansion Logical Letter Codes         Single Word Partial Message/Phrase Whole Sentence/Message         Single Word           Number Coding         Single Word         Single Word           Number Coding         Single Word           Number Coding         Single Word           Value Sentence/Message         Whole Sentence/Message           Semantic Compaction         Single Word           Language Branching         Partial Message/Phrase           Whole Sentence/Message         Whole Sentence/Message           KeyLinking         Single Word           Partial Message/Phrase         Whole Sentence/Message           Morse Code         Single Word           Partial Message/Phrase         Whole Sentence/Message           Moree Code         Single Word           Partial Message/Phrase         Whole Sentence/Message <th></th> <th>Multiple Keys Activated (multiple s</th> <th>selections)</th> <th></th> <th>There contended, meeeage</th>		Multiple Keys Activated (multiple s	selections)		There contended, meeeage
display set = multiple messages)     Abbreviation Expansion Logical Letter Codes     Single Word Partial Message/Phrase Whole Sentence/Message       Color Coding Number Coding     Single Word Partial Message/Phrase Whole Sentence/Message       Semantic Compaction Language Branching     Single Word Partial Message/Phrase Whole Sentence/Message       Branching Strategies (multiple display sets = multiple messages)     KeyLinking     Single Word Partial Message/Phrase Whole Sentence/Message       Branching Strategies (multiple display sets = multiple messages)     Levels & Locations     Single Word Partial Message/Phrase Whole Sentence/Message       Dynamic Displays     Single Word Partial Message/Phrase Whole Sentence/Message     Single Word Partial Message/Phrase Whole Sentence/Message       Rate Enhancement Strategies     Strategy Type     Processing strategy used with Pop Up/Sort Dialog Windows     Orthography       Pop Up/Sort Dialog Windows     Dynamic Displays     Single Word Partial Message/Phrase Whole Sentence/Message		Encoded Strategies (single	Orthograph	y (alphabet layout)	Spelling
Rate     Strategy Type     Logical Letter Codes     Partial Message/Phrase       Whole Sentence/Message     Whole Sentence/Message       Color Coding     Single Word       Number Coding     Partial Message/Phrase       Whole Sentence/Message     Whole Sentence/Message       Semantic Compaction     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       KeyLinking     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       Morse Code     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Dynamic Displays       Single Word     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Number Coding       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word    <		display set = multiple messages)	Abbreviatio	n Expansion	Single Word
Rate       Strategy Type       Processing strategies       Whole Sentence/Message         Rate       Strategy Type       Processing strategy set			Logical Lett	er Codes	Partial Message/Phrase
Rate     Strategy Type     Processing strategy sets = multiple     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       KeyLinking     Single Word       Partial Message/Phrase     Whole Sentence/Message       Morse Code     Single Word       Partial Message/Phrase     Whole Sentence/Message       Morse Code     Single Word       Partial Message/Phrase     Whole Sentence/Message       Morse Code     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Dynamic Displays       Single Word     Partial Message/Phrase       Whole Sentence/Message     Dynamic Displays       Single Word     Partial Message/Phrase       Whole Sentence/Message     More       Vinole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Single Word     Partial Message/Phrase       Whole Sentence/Message     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sente					Whole Sentence/Message
Rate     Strategy Type     Processing strategies     Single Word       Branching Strategies     Multiple     Language Branching     Single Word       Branching Strategies (multiple     KeyLinking     Single Word       Branching Strategies (multiple     Levels & Locations     Single Word       Branching Strategies (multiple     Levels & Locations     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       Branching Strategies (multiple     Levels & Locations     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Single Word       Partial Message/Phrase     Whole Sentence/Message       Multory Scans     Single Word       Partial Message/Phrase     Whole Sentence/Message       Multory Scans     Single Word       Partial Message/Phrase     Whole Sentence/Message       Pop Up/Sort Dialog Windows     Orthography       Pop Up/Sort Dialog Windows     Dynamic Displays       Partial Message/Phrase     Semantic Compaction, Key Linking, Dynamic			Color Codin	g	Single Word
Rate       Strategy Type       Processing strategy used with         Rate       Strategy Type       Processing strategy used with         Strategies       Strategy Type       Processing strategy used with         Strategies       Orthography       Single Word         Partial Message/Phrase       Whole Sentence/Message         Whole Sentence/Message       Whole Sentence/Message         Morse Code       Single Word         Partial Message/Phrase       Whole Sentence/Message         Morse Code       Single Word         Partial Message/Phrase       Whole Sentence/Message         Morse Code       Single Word         Partial Message/Phrase       Whole Sentence/Message         Whole Sentence/Message       Dynamic Displays         Single Word       Partial Message/Phrase         Whole Sentence/Message       Dynamic Displays         Single Word       Partial Message/Phrase         Whole Sentence/Message       Note Sentence/Message         Dynamic Displays       Single Word         Partial Message/Phrase       Whole Sentence/Message         Pop Up/Sort Dialog Windows       Orthography         Symbol/Icon Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displa			Number Co	aing	Partial Message/Phrase
Rate     Strategy Type     Processing strategy Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       Branching Strategies (multiple display sets = multiple messages)     Levels & Locations     Single Word       Partial Message/Phrase     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Dynamic Displays       Single Word     Partial Message/Phrase       Whole Sentence/Message     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       Auditory Scans     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Whole Sentence/Message       Pop Up/Sort Dialog Windows     Orthography       Symbol/Icon Prediction     Semantic Compaction, Key Linking, Dynamic Displays       Processing strategies     Pop Up/Sort Dialog Windows       Pop Up/Sort Dialog Windows<			Semantic C	ompaction	Single Word
Rate     Strategy Type     Processing strategy used with       Rate     Strategy Type     Processing strategy used with       Branching Strategies     Orthography       Single Word     Single Word       Partial Message/Phrase     Whole Sentence/Message       Morse Code     Single Word       Partial Message/Phrase     Whole Sentence/Message       Whole Sentence/Message     Dynamic Displays       Single Word     Partial Message/Phrase       Whole Sentence/Message     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Dynamic Displays     Single Word       Partial Message/Phrase     Whole Sentence/Message       Word Prediction     Single Word       Symbol/Icon Prediction     Orthography       Symbol/Icon Prediction     Semantic Compaction, Key Linking, Dynamic       Displays     Pop Up/Sort Dialog Windows     Dynamic Displays       Pop Up/Sort Dialog Windows     Dynamic Displays			Language E	Branching	Partial Message/Phrase
Rate       Single Type       Fracesong       Single Word         Rate       Single Word       Partial Message/Phrase         Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word         Partial Message/Phrase       Whole Sentence/Message         Dynamic Displays       Single Word         Partial Message/Phrase       Whole Sentence/Message         Whole Sentence/Message       Dynamic Displays         Single Word       Partial Message/Phrase         Whole Sentence/Message       Dynamic Displays         Single Word       Partial Message/Phrase         Whole Sentence/Message       Single Word         Partial Message/Phrase       Whole Sentence/Message         Word Prediction       Single Word         Symbol/Icon Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays			31.51	5	Whole Sentence/Message
Rate       Strategy Type       Partial Message/Phrase Whole Sentence/Message         Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word Partial Message/Phrase Whole Sentence/Message         Dynamic Displays       Single Word Partial Message/Phrase Whole Sentence/Message       Dynamic Displays         Single Word       Partial Message/Phrase Whole Sentence/Message         Word Prediction       Single Word Partial Message/Phrase Whole Sentence/Message         Rate       Strategy Type       Processing strategy used with         Word Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies			KeyLinking		Single Word
Rate       Strategy Type       Processing strategy used with         Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word         Partial Message/Phrase       Whole Sentence/Message       Whole Sentence/Message         Dynamic Displays       Single Word       Partial Message/Phrase         Whole Sentence/Message       Whole Sentence/Message       Whole Sentence/Message         Dynamic Displays       Single Word       Partial Message/Phrase         Whole Sentence/Message       Whole Sentence/Message       Whole Sentence/Message         Dynamic Displays       Single Word       Partial Message/Phrase         Whole Sentence/Message       Whole Sentence/Message       Whole Sentence/Message         Rate       Strategy Type       Processing strategy used with         Symbol/Icon Prediction       Orthography       Symbol/Icon Prediction         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays       Encoded and Branching strategies					Partial Message/Phrase
Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word Partial Message/Phrase Whole Sentence/Message         Dynamic Displays       Single Word Partial Message/Phrase Whole Sentence/Message         Dynamic Displays       Single Word Partial Message/Phrase Whole Sentence/Message         Auditory Scans       Single Word Partial Message/Phrase Whole Sentence/Message         Rate Enhancement Strategies       Strategy Type       Processing strategy used with         Word Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies					Whole Sentence/Message
Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word         Dynamic Displays       Single Word       Partial Message/Phrase         Dynamic Displays       Single Word         Partial Message/Phrase       Whole Sentence/Message         Dynamic Displays       Single Word         Partial Message/Phrase       Whole Sentence/Message         Dynamic Displays       Single Word         Partial Message/Phrase       Whole Sentence/Message         Auditory Scans       Single Word         Partial Message/Phrase       Whole Sentence/Message         Rate       Strategy Type       Processing strategy used with         Enhancement       Word Prediction       Orthography         Strategies       Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies			Morse Code	9	Single Word
Branching Strategies (multiple display sets = multiple messages)       Levels & Locations       Single Word Partial Message/Phrase Whole Sentence/Message         Dynamic Displays       Single Word Partial Message/Phrase Whole Sentence/Message         Auditory Scans       Single Word Partial Message/Phrase Whole Sentence/Message         Rate Enhancement Strategies       Strategy Type       Processing strategy used with         Word Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies					Partial Message/Phrase Whole Septence/Message
Braining of allogios (matrix)       Lookie a		Branching Strategies (multiple	Levels & Locations		Single Word
messages)       Whole Sentence/Message         Dynamic Displays       Single Word         Partial Message/Phrase       Partial Message/Phrase         Whole Sentence/Message       Whole Sentence/Message         Auditory Scans       Single Word         Partial Message/Phrase       Partial Message/Phrase         Whole Sentence/Message       Sentence/Message         Symbol/Icon Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic         Displays       Dynamic Displays         Preduency Averaging       Encoded and Branching strategies		display sets = multiple			Partial Message/Phrase
Base Strategies       Dynamic Displays       Single Word Partial Message/Phrase Whole Sentence/Message         Rate Enhancement Strategies       Strategy Type       Processing strategy used with         Word Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies		messages)			Whole Sentence/Message
Rate       Strategy Type       Processing strategy used with         Build of the production       Orthography         Strategies       Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies			Dynamic Di	splays	Single Word
Rate       Strategy Type       Processing strategy used with         Enhancement       Word Prediction       Orthography         Strategies       Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies					Partial Message/Phrase
Auditory Scans       Single Word Partial Message/Phrase Whole Sentence/Message         Rate Enhancement Strategies       Strategy Type       Processing strategy used with         Word Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies					Whole Sentence/Message
Rate       Strategy Type       Processing strategy used with         Enhancement       Word Prediction       Orthography         Strategies       Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies			Auditory Sc	ans	Single Word
Rate Enhancement Strategies       Strategy Type       Processing strategy used with         Word Prediction       Orthography         Symbol/Icon Prediction       Semantic Compaction, Key Linking, Dynamic Displays         Pop Up/Sort Dialog Windows       Dynamic Displays         Frequency Averaging       Encoded and Branching strategies					Whole Sentence/Message
Enhancement Strategies         Word Prediction         Orthography           Symbol/Icon Prediction         Semantic Compaction, Key Linking, Dynamic Displays           Pop Up/Sort Dialog Windows         Dynamic Displays           Frequency Averaging         Encoded and Branching strategies	Rate	Strategy Type	1	Processing strat	eavused with
Strategies         Symbol/Icon Prediction         Semantic Compaction, Key Linking, Dynamic Displays           Pop Up/Sort Dialog Windows         Dynamic Displays           Frequency Averaging         Encoded and Branching strategies	Fnhancement	Word Prediction		Orthography	ogy used with
Symbol/contribution     Semantic Compaction, Key Linking, Dynamic       Displays       Pop Up/Sort Dialog Windows     Dynamic Displays       Frequency Averaging     Encoded and Branching strategies	Strategies	Symbol/Icon Prediction		Semantic Compo	ction Key Linking Dynamic
Pop Up/Sort Dialog Windows Dynamic Displays Erequency Averaging Encoded and Branching strategies				Displaye	cuon, ney Linking, Dynamic
Frequency Averaging		Pop LIp/Sort Dialog Windows		Dynamic Dienlaye	
		Frequency Averaging		Encoded and Rra	nching strategies

**Output:** The result of activating the system. Determined by the sensory, cognitive, receptive and expressive abilities, needs and expectations of the user.

Type of Output	Resulting Output Needed/Expected	The Technology Fea	ture
Auditory	Key Activation Feedback	Кеу Веер	
		Key Echo	
	Synthesized Speech	Electronic Speech Sy	nthesis
	(Text-to-Speech)	Human Recorded/Rei	ndered Synthesis
	Recorded Speech	Digitized Speech	
	Recorded Sound	Digitized Sound	
Visual	Contrast:	Display Type:	
	Color	Tablet	
	Monochrome	Desktop Monitor	
	Reverse Polarity	Portable Display	
	Backlighting/Side-lighting	Built-in Display	
	Size:	CCTV/camera	
	Enlarged Display	Large Screen Monitor	
	Enlarged Picture	Screen Enlarger	
	Enlarged Font	Text Enlargement	
	Hard Copy:	Printer Type:	Print Methods:
	Regular Print	Desktop	InkJet
	Enlarged Print	Portable	Laser
	Color Print	Built-In	Thermal
Tactual	Tactual Alert (shaking)	Vibration	I
	Brailled Text	Text to Braille Conver	sion
		Braille Embosser	
	Refreshable Braille	Text to Braille Conver	sion
		Single Character Disp	lay
		Single Line (40/80) Di	splay
	Tactual Map	Thermoform	
	Tactual Graphic	Raised Graphic Pape	r
Interface Capabilities	Connect to:	Type of Connection:	
	Internet/WWW	Wireless	
	Electronic Mail	Ethernet	
	Server	USB Type	
	Lists	Mini	
	Video Chat	Other	
	Electronic Imaging:	Wireless	
	Scanner	USB Type	
	Camera/Video	Other	
	Computer Emulator	ASCII	

General Features: Physical and other properties that impact system selection.

Portability	
	Weight
	Size, Dimensions
	Handle/Carry Strap/Belt
	Mounting Options
	Carry Case
	Battery Life

Company Policy	
	Initial Setup and Training
	Loaner availability
	Service/Repair Record
	Rent to Purchase Program
	Financing Assistance
	Local Representative
	Site Licensing

Other	
	Cost
	Ease of Use
	Transparency
	Memory/Storage Capacity
	Customizability
	Upgradeable/Expandable
	Back-up Capability
	Aesthetics
	Durability