

# BERNARD TELEPHONE & COMMUNICATIONS

110 Jess St, Bernard IA

563-879-3203

www.bernardtelephone.com

## Birth of the Information Highway

Not one person can be credited for inventing the internet. It was the work of dozens of pioneering scientists, programmers and engineers who each played a role in developing new features and technologies that would eventually merge and become the “information highway”.

As you can imagine, many scientists visualized and anticipated the existence of networks of information long before the technology to accomplish these visions even existed. Ideas for a “world wireless system” and searchable storage systems of books and media can be dated back to the early 1900’s. The schematics for the internet, however, would not arrive till the early 1960s. The idea of an “Intergalactic Network” of computers was MIT’s J.C.R Licklider’s idea. This idea led to scientists developing the concept of “packet switching” which later became one of the major building blocks of the internet.

The first workable prototype of the Internet was called Advanced Research Projects Agency Network (ARPANET). This network delivered its first computer to computer message on October 29, 1969 between a computer in the research lab at UCLA and one at Stanford. Unfortunately, the five-letter message, “LOGIN”, crashed the network resulting in only the first two letters of the message reaching the Stanford computer.

Technology continued growing in the 1970’s resulting in the development of Transmission Control Protocol and Internet Protocol, or TCP/IP by scientists Robert Kahn and Vinton Cerf. These developments set the communications standards for how data could be transmitted between multiple networks.

Adopting TCP/IP in January 1983, researchers at ARPANET began to assemble the “network of networks” that would eventually become the Internet. In 1990, computer scientist Tim Berners-Lee invented the World Wide Web, the most common means of accessing data online in the form of websites and hyperlinks. The web helped popularize the internet and served as a crucial step in developing the Internet we depend on today.

We lease routers for only \$5 per month. Contact us for details.



Our office will be closed for the Thanksgiving Holiday on Thursday, November 26th and Friday, November 27th.

Congratulations to this month's winner, Jacob Hoppe!

Jacob will receive a \$10 credit on his next bill.

Winners are drawn randomly and everyone is eligible.

Watch Holiday movies 24/7 through the Holiday Season. Catch new Holiday movie premieres weekly starting on Saturday, October 24th at 8/7c on channel 211(SD) or 611(HD).

- \* Jingle Bell Bride
- \* Chateau Christmas
- \* One Royal Holiday
- \* On the 12th Date of Christmas
- \* Never Kiss a Man in a Christmas Sweater
- \* Christmas with the Darlings
- \* Christmas in Vienna
- \* A Timeless Christmas
- \* A Nashville Christmas Carol
- \* The Christmas House
- \* Love & Gingerbread
- \* A Christmas Tree Grows in Colorado
- \* A Bright and Merry Christmas
- \* Christmas by Starlight
- \* Five Star Christmas
- \* Christmas Waltz
- \* If I Only Had Christmas
- \* Christmas In Evergreen: Bells Are Ringing
- \* Christmas She Wrote
- \* Cross Country Christmas
- \* Christmas Comes Twice
- \* A Christmas Carousel
- \* Love, Lights, Hanukkah!



For more holiday favorites, turn to Hallmark's Movies & Mysteries channel 212(SD) or 612(HD).

Planning to do some outdoor work while you have the extra help home for the Holidays? Don't forget to call 48 hours before the holiday so you can dig.



Phone directories are now available live at:  
[www.easterniowaregionaldirectory.com](http://www.easterniowaregionaldirectory.com)

## Fabulous Fall

Q	T	F	I	L	S	H	Y	C	D	E	R	E	V	I	L	P	A	L	T	H	Z	L
E	E	J	X	A	C	O	G	O	M	N	C	Y	J	H	O	P	X	K	U	O	T	B
L	M	S	F	G	H	M	U	R	S	E	A	E	C	B	U	J	T	V	Y	K	Z	I
L	W	T	O	A	I	D	V	P	B	Y	N	G	O	M	C	N	P	E	V	P	L	N
A	Q	U	P	E	M	L	I	T	H	S	T	P	P	I	P	U	I	C	X	K	H	P
G	P	F	S	L	A	I	P	H	P	E	K	K	Q	J	M	O	L	S	O	S	A	R
O	N	F	O	G	B	U	L	A	F	L	I	C	K	E	N	Z	G	F	A	L	M	E
U	I	I	U	H	M	J	T	Y	O	N	D	O	R	C	H	A	R	D	P	I	R	I
R	K	N	V	K	L	S	I	R	P	C	Z	R	D	U	A	T	I	P	F	Z	T	P
D	S	G	F	I	E	W	M	I	U	R	Y	N	T	A	S	C	M	E	T	V	O	E
S	R	N	O	S	G	F	E	D	C	A	S	U	I	S	I	J	M	G	S	W	R	L
H	S	B	M	K	C	S	U	E	N	D	C	C	B	Y	U	B	A	M	E	U	C	P
A	C	G	X	U	O	Q	K	S	T	U	F	O	M	R	K	T	Q	U	V	H	E	P
R	O	N	L	D	T	Y	B	N	Y	H	S	P	W	R	H	A	S	N	R	O	C	A
F	L	I	D	W	O	U	F	Y	A	C	R	I	T	E	E	L	T	S	A	O	I	J
A	Y	V	E	D	M	C	A	E	M	H	A	R	B	A	U	H	I	H	V	P	I	
M	E	R	P	O	S	F	L	K	S	G	T	I	K	N	Q	J	G	Y	F	U	S	D
S	D	A	A	S	W	E	L	R	P	I	N	D	I	A	N	C	O	R	N	F	K	N
A	T	C	O	L	O	R	F	U	L	G	A	P	N	R	A	P	E	P	H	R	T	I
Y	H	D	I	P	R	A	H	T	E	A	L	U	K	C	I	D	E	R	S	P	A	K

- Acorns
- Apple Pie
- Autumn
- Carving
- Cider
- Colorful
- Cornucopia
- Cranberry Sauce
- Fall
- Family
- Gathering
- Gourds
- Ham
- Harvest
- Hay Rides
- Indian Corn
- Orchard
- Pilgrim
- Pumpkin Pie
- Spice
- Stuffing
- Thanksgiving
- Turkey
- Yams

