WHAT IS CLAIMED IS:

1. An expandable metal wellbore anchor for use in a wellbore, comprising:

one or more conductive expandable members positionable on a downhole conveyance member in the wellbore;

wherein the one or more conductive expandable members comprise a metal configured to expand in response to hydrolysis; and

wherein a combined volume of the one or more conductive expandable members is sufficient to expand to anchor one or more downhole tools having a combined weight of at least 11,000 Kg within the wellbore in response to the hydrolysis.

2. The expandable metal wellbore anchor as recited in claim 1, wherein the one or more expandable members are two or more expandable members axially positionable along and substantially equally radially spaceable about the downhole conveyance member.

3. The expandable metal wellbore anchor as recited in claim 2, further including two or more spacers radially interleaving the two or more expandable members, wherein the two or more spacers do not comprise the metal configured to expand in response to hydrolysis.

4. The expandable metal wellbore anchor as recited in claim 1, wherein the one or more conductive expandable members are one or more toroidal expandable members positionable around the downhole conveyance member in the wellbore.

5. The expandable metal wellbore anchor as recited in claim 4, further including a pair of retaining rings positioned adjacent a proximal end and a distal end of the one or more toroidal expandable members for fixing the one or more toroidal expandable members on the downhole conveyance member.

6. The expandable metal wellbore anchor as recited in claim 5, wherein the pair of retaining rings does not comprise the metal configured to expand in response to hydrolysis.

7. The expandable metal wellbore anchor as recited in claim 4, wherein the one or more toroidal expandable members positionable around the downhole conveyance member in the

wellbore is a single elongate toroidal expandable member positionable around the downhole conveyance member in the wellbore.

8. The expandable metal wellbore anchor as recited in claim 7, wherein the single elongate toroidal expandable member further includes an opening extending entirely through a wall thickness thereof for accepting a fastener for fixing the single elongate toroidal expandable member on the downhole conveyance member.

9. The expandable metal wellbore anchor as recited in claim 4, wherein the one or more toroidal expandable members positionable around the downhole conveyance member in the wellbore include two or more toroidal expandable members positionable around the downhole conveyance member in the wellbore, and further including one or more spacers axially interleaving the two or more toroidal expandable members, wherein the one or more spacers do not comprise the metal configured to expand in response to hydrolysis.

10. The expandable metal wellbore anchor as recited in claim 4, wherein the one or more toroidal expandable members include an axial groove extending along an entire length thereof.

11. The expandable metal wellbore anchor as recited in claim 4, wherein the one or more toroidal expandable members include a passageway extending along an entire length thereof.

12. The expandable metal wellbore anchor as recited in claim 11, wherein the passageway is positioned in a wall thickness of the one or more toroidal expandable members.

13. The expandable metal wellbore anchor as recited in claim 1, further including a swellable rubber member positionable proximate the one or more expandable members, wherein the swellable rubber member is configured to swell in response to contact with one or more downhole fluids to seal the wellbore.

14. The expandable metal wellbore anchor as recited in claim 1, wherein the metal in its expanded state is inherently porous, thereby allowing fluids within the wellbore to traverse past the wellbore anchor.

15. A well system, comprising:

a wellbore positioned within a subterranean formation;

a downhole conveyance located within the wellbore,

an expandable metal wellbore anchor coupled to the downhole conveyance and expanded within the wellbore, the expandable metal wellbore anchor including;

one or more conductive expandable members positioned on the downhole conveyance; and

wherein the one or more conductive expandable members comprise a metal configured to expand in response to hydrolysis; and

a downhole tool coupled to the expandable metal wellbore anchor, wherein a combined volume of the one or more expandable members is sufficient to expand to anchor the downhole tool having a combined weight of at least 11,000 Kg within the wellbore in response to the hydrolysis.

16. The well system as recited in claim 15, wherein the expandable metal wellbore anchor is expanded within a cased region of the wellbore.

17. The well system as recited in claim 15, wherein the expandable metal wellbore anchor is expanded within an open hole region of the wellbore.

18. The well system as recited in claim 15, wherein the one or more conductive expandable members are one or more toroidal expandable members positioned around the downhole conveyance member in the wellbore.

19. The well system as recited in claim 18, wherein the one or more toroidal expandable members include an axial groove extending along an entire length thereof.

20. The well system as recited in claim 18, wherein the one or more toroidal expandable members include a passageway extending along an entire length thereof.

21. The well system as recited in claim 20, wherein the passageway is positioned in a wall thickness of the one or more toroidal expandable members.

22. A method for setting an expandable metal wellbore anchor, comprising:

positioning a downhole conveyance at a desired location within a wellbore of a subterranean formation, the downhole conveyance having a pre-expansion expandable metal wellbore anchor coupled thereto, the pre-expansion expandable metal wellbore anchor including;

one or more conductive expandable members positioned on the downhole conveyance;

wherein the one or more conductive expandable members comprise a metal configured to expand in response to hydrolysis; and

wherein a combined volume of the one or more conductive expandable members is sufficient to expand to anchor one or more downhole tools having a combined weight of at least 11,000 Kg within the wellbore in response to the hydrolysis; and

subjecting the pre-expansion wellbore anchor to a wellbore fluid to expand the one or more expandable members into contact with the wellbore and thereby anchor the one or more downhole tool within the wellbore.

23. The method as recited in claim 22, wherein the metal is configured to expand in response to one of magnesium hydrolysis, aluminum hydrolysis, calcium hydrolysis, and calcium oxide hydrolysis.

24. The method as recited in claim 24, wherein the hydrolysis forms a structure comprising one of a Brucite, Gibbsite, bayerite, and norstrandite.

25. The method as recited in claim 22, wherein the metal is a magnesium alloy or a magnesium alloy alloyed with at least one of the following elements: Al, Zn, Mn, Zr, Y, Nd, Gd, Ag, Ca, Sn, and Re.